

# Curriculum Vitae

del Dr. [Alexander Gelbukh](#)



Miembro de la [Academia Mexicana de Ciencias](#)  
Investigador Nacional ([SNI](#)) nivel 3 (el más alto)  
Expresidente de la Sociedad Mexicana de Inteligencia Artificial  
[Índice h](#): Google Académico: [49](#), Scopus: [31](#), Clarivate WoS: [23](#)  
Autor de más de 500 [publicaciones](#)

[ResearcherID: A-8979-2008](#) • [ORCID: 0000-0001-7845-9039](#)  
[ISNI: 0000000110856660](#) • [Google Scholar](#) • [DBLP](#)  
[Microsoft Academic Search](#)

Este documento está en desarrollo.  
Algunas partes pueden todavía no estar traducidas de inglés.

15.08.2021

La versión más actualizada de este documento  
se encuentra en [www.Gelbukh.com/CV](http://www.Gelbukh.com/CV)

<b>Estadísticas</b>	<b>3</b>
<b>Datos generales</b>	<b>4</b>
Contacto y dirección	4
Sitio web, perfiles y redes sociales	4
Posición actual	5
Grados obtenidos	5
Idiomas hablados	5
Experiencia profesional pasada	5
Intereses actuales en la investigación	6
<b>Distinciones</b>	<b>7</b>
Reconocimientos y nombramientos honoríficos internacionales	7
Reconocimientos nacionales	8
Reconocimientos institucionales	8
Mejor artículo, tesis o resultado	9
<b>Actividades profesionales</b>	<b>13</b>
Presidente del Comité de Programa o Presidente de los congresos	13
Miembro del Comité de Programa de los congresos	17
Evaluación de proyectos, becas y promoción docente	22
Otras actividades profesionales	23
<b>Investigación y desarrollo de software</b>	<b>25</b>
Proyectos de investigación: nacionales e internacionales	25
Proyectos de investigación: institucionales	26
Proyectos de investigación: como participante	28
Proyectos aplicados	31
Herramientas desarrolladas y derechos de autor	31
<b>Docencia y divulgación</b>	<b>32</b>
Tesis dirigidas	32
Cursos impartidos y elaborados	45
Conferencias magistrales	46
Atención de los medios, entrevistas, participación en los medios	51
<b>Trabajo editorial y publicaciones no arbitradas y otras</b>	<b>52</b>
Editor en Jefe, asociado o miembro del Consejo Editorial de revistas	52
Libros y revistas editados	54
Reseñas	63
Artículos en revistas de divulgación científica	64
Informes técnicos con ISBN	64
Resúmenes en memorias de congresos internacionales	65
Congresos nacionales in extenso	68
Artículos en congresos selectos actualmente no disponibles en línea	69
<b>500 publicaciones selectas</b>	<b>75</b>
Revistas indexadas con el factor de impacto JCR	75
Revistas incluidas en el Padrón del CONACyT	82
Otras revistas y ediciones periódicas	86
Libros	95
Capítulos en libros de investigación	96
<i>Lecture Notes in Computer Science</i>	100
<i>Lecture Notes in Computer Science</i> , indexados en JCR	113
Congresos internacionales in extenso publicados por IEEE	122
Otros congresos internacionales <i>in extenso</i>	127

# Estadísticas

## 500 publicaciones selectas

161	<i>Artículos en revistas arbitradas</i>
52	Revistas indexadas con el factor de impacto JCR
40	Revistas incluidas en el Padrón del CONACyT
69	Otras revistas y ediciones periódicas
34	<i>Libros y capítulos de libros</i>
8	Libros
26	Capítulos en libros de investigación
313	<i>Artículos in extenso en congresos arbitrados</i>
108	Lecture Notes in Computer Science
45	Lecture Notes in Computer Science, indexados en JCR
29	Congresos internacionales in extenso publicados por IEEE
131	Otros congresos internacionales in extenso
508	total

## Tesis dirigidas

33	Doctorado
38	Maestría
3	Licenciatura
22	En proceso
96	total

## Trabajo editorial

27	Editor en Jefe, asociado o miembro del Consejo Editorial de revistas
91	Libros y revistas editados

# Datos generales

En los documentos antiguos, mi nombre puede ser escrito de varias formas, tales como: Alexander F. Gelbukh, Alexandre Guelboukh Kahn, Александр Гельбух, Александр Феликсович Гельбух.

## Contacto y dirección

Correo: [gelbukh@gelbukh.com](mailto:gelbukh@gelbukh.com), [gelbukh@cic.ipn.mx](mailto:gelbukh@cic.ipn.mx).

Teléfono de oficina: (+52) 55 5729 6000 x 56544, 56518.

Teléfono móvil y WhatApps: (+52) 55 1810 4587.

Skype: gelbukh

Dirección postal de oficina: CIC, IPN, Av. Juan Dios Bátiz s/n, casi esq. Av. Mendizábal, Col. Nueva Industrial Vallejo, CP 07738, Ciudad de México, México.

## Sitio web, perfiles y redes sociales

*Mi página web es la única fuente de información sobre mí que yo mantengo actualizada.*

– Página web personal: [www.gelbukh.com](http://www.gelbukh.com), [www.cic.ipn.mx/gelbukh](http://www.cic.ipn.mx/gelbukh)

*No uso activamente las redes sociales ni mantengo mis perfiles actualizados. Para obtener información, véase mi página web y para contactarme, use el correo electrónico.*

– Facebook: [alexander.gelbukh](https://www.facebook.com/alexander.gelbukh)

– Twitter: [gelbukh](https://twitter.com/gelbukh)

– LinkedIn: [alexandergelbukh](https://www.linkedin.com/in/alexandergelbukh)

– arXiv: [gelbukh\\_a\\_1](https://arxiv.org/author/gelbukh_a_1)

– GitHub: [agelbukh](https://github.com/agelbukh)

*Los siguientes servicios se actualizan automáticamente. Yo no mantengo mi perfil actualizado.*

– Google Académico: [g-dRTkQAAAAJ](https://scholar.google.com/citations?user=g-dRTkQAAAAJ)

– Scopus: [24604968400](https://www.scopus.com/authid/detail.uri?authorid=24604968400)

– ResearcherID (Web of Science / Publons): [A-8979-2008](https://publons.com/author/urn:lsid:publons.com/author/18979-2008)

- ORCID: [0000-0001-7845-9039](#)
- DBLP: [Gelbukh:Alexander\\_F](#)
- Semantic Scholar: [1747784](#)
- ReserachGate: [Alexander\\_Gelbukh](#)
- DeepAI: [alexander-gelbukh](#)
- Mendeley: [alexander-gelbukh](#)
- Microsoft Academic: [alexander f gelbukh](#)
- zbMath (Zentralblatt MATH): [gelbukh.alexander](#)
- Wikipedia: [Alexander\\_Gelbukh](#)

## Posición actual

1997 a la fecha: Profesor-Investigador Titular «C» (el nivel más alto), profesor colegiado, Laboratorio de Lenguaje Natural y Procesamiento de Texto del Centro de Investigación en Computación del Instituto Politécnico Nacional, México DF, México.

1997 a la fecha: Jefe del mismo Laboratorio.

## Grados obtenidos

- Doctor en Ciencias de Computación («Ciencias Técnicas», especialidad «Informática»), 1995, el Instituto de la Información Científica y Técnica de toda Rusia (VINITI).

Tesis en la Lingüística Computacional:

[A. Gelbukh. Эффективно реализуемая модель морфологии флективного языка](#) (*An effectively implementable model of inflectional natural language morphology*). In Russian. Ph.D. thesis, All-Russian Institute for Scientific and Technical Information (VINITI), Moscow, Russia, 1995.

- Maestro en Ciencias (matemáticas; con distinción), 1990, la Universidad Estatal «Lomonósov» de Moscú (MGU), facultad de Mecánica y Matemáticas, departamento de Matemáticas; tesis en la Lingüística Computacional.

## Idiomas hablados

Inglés (100%), español (100%), ruso (nativo).

## Experiencia profesional pasada

- 2018–2019: University of Wolverhampton, UK. Visiting Researcher.
- 2010–2011: Waseda University, Tokyo, Japan. Visiting Scholar.
- 2003–2004: Chung-Ang University, Seoul, Korea. Distinguished Visiting Professor.

- 1995–1996: Universidad Estatal «Lomonósov» de Moscú, Rusia, Departamento de Filología. Profesor del departamento de lingüística. Clases de informática para lingüistas.
- 1994–1996: MediaLingva Inc. (Moscú, Rusia). Consultante. Desarrollo de herramientas y diccionarios para el análisis morfológico de lenguaje natural.
- 1988–1992: Centro de Información Científico y Técnico de toda la URSS (AUSTIC o VNTICenter) del Comité Nacional de Ciencia y Tecnología (GKNT) de la Academia de Ciencias de la URSS, Moscú, Rusia. Investigador titular. Investigación y desarrollo en la comprensión por computadora de lenguaje natural.

### **Intereses actuales en la investigación**

- Inteligencia artificial
- Lingüística computacional, procesamiento de lenguaje natural, procesamiento de texto
- Análisis de sentimientos y emociones, computación séntica, minería de opiniones
- Morfología, sintáxis y semántica computacional de lenguaje natural
- Resolución de ambigüedad léxica y sintáctica
- Desambiguación de sentidos de palabras
- Resolución de anáfora directa e indirecta
- Recuperación de información, extracción de información, minería de texto
- Recursos lingüísticos, diccionarios y ontologías
- Interacción humano-computadora

# Distinciones

## Reconocimientos y nombramientos honoríficos internacionales

1. **Latin America Research Award** 2020, Google, together with advised PhD student [Segun Taofeek Aroyehun](#), CIC-IPN.  
The monetary prize that accompanies the award is approx. USD 22,000. The award was given to [22 PhD and MSc students](#) (with their advisors) in Latin America.
2. **Honorary Professor**, [Amity Institute of Information Technology](#), [Amity University](#), a PhD-giving university in Noida (suburb of Delhi), Uttar Pradesh, India. [Since 2017](#).
3. **Invited Professor**, [Universidad Nacional](#), Bogotá, Colombia, PhD program in [Engineering and Systems](#). Since 2008.
4. **Distinguished Fellow**, International Engineering and Technology Institute ([IETI](#)), Hong Kong. Since 2015.
5. **Member** of the Social Networks Research Center ([SoNet RC](#)), Mendel University in Brno ([MendelU](#)), Czech Republic. Since 2008.
6. **Member** of the Machine Intelligence Research Labs ([MIR Labs](#)), Scientific Network for Innovation and Research Excellence (a global non-profit academic consortium).  
Membership in this consortium is by invitation only and is reserved for internationally recognized researchers.
7. **Senior Researcher**, [International Laboratory for Intelligent Systems and Structural Analysis](#), [Higher School of Economics](#), Russia, 2016–2017.
8. **Visiting Professor**, [Institute for Modern Linguistic Research](#), [Sholokhov Moscow State University for the Humanities](#), Moscow, Russia, 2013–2016.
9. **Invited Researcher**, Network Media Center of the [Waseda University](#), Tokyo, Japan, 2011–2014.
10. **Visiting Scholar**, [Waseda University](#), School of Law, Tokyo, Japan, 2010–2011.
11. **Distinguished Visiting Professor**, [Chung-Ang University](#), School of Computer Science and Engineering, Seoul, Korea. 2003–2004.

## Reconocimientos nacionales

12. Miembro regular de la **Academia Mexicana de Ciencias** desde 2000.  
En la sección de ingeniería. La Academia incluye 2040 miembros regulares mas 80 miembros correspondientes; de éstos, 200 en la sección de ingeniería (datos 2008).
13. **Investigador Nacional** de México (miembro del **SNI**) desde 1998, actualmente con el nivel 3 (SNI 3, el más alto).  
Tres es el nivel máximo. Son 1,536 Investigadores Nacionales de México con nivel 3, de un total de 17,637 Investigadores Nacionales de México (datos de 2011). El nombramiento, sujeto a reevaluación cada 5 años, incluye un premio monetario de más aprox. 450,000 pesos anuales.
14. **Grade of Fellow**, Mexican Society of Artificial Intelligence (**SMIA**). Since 2017.  
This is a distinction (not just membership) so far (2017) bestowed on about a dozen of individuals. **According** to SMIA, “SMIA Fellow Program <...> provides a distinction for reserved Mexican researchers who have made important contribution to the progress of IA in Mexico and in the development of this Society”.
15. **Sabbatical stay grant** from the **CONACYT** (Mexican Ministry of Science and Technology) during 2018–2019 for a stay at the University of Wolverhampton, UK.  
This highly competitive award included a monetary prize of USD \$18,000.
16. **Sabbatical stay grant** from the **CONACYT** (Mexican Ministry of Science and Technology) during 2010–2011 for a stay at the **Waseda University**, Tokyo, Japan.  
This highly competitive award included a monetary prize of USD \$17,000.
17. **Visitante distinguido** de la ciudad de Apizaco, por el Ayuntamiento de Apizaco, Tlaxcala, México, por el motivo del 5o congreso Mexican International Conference on Artificial Intelligence, **2006**.

## Reconocimientos institucionales

18. Multiple **research scholarships** from the IPN, awarded biannually since 1997 to date: (1) Incentive for Performance in Teaching (EDD) and since 2000 or earlier, Incentive for Performance in Research (EDI), which are mutually exclusive; (2) Institutional System of Scholarships for Exclusive Dedication (SIBE); in recent about 15 years or more, the highest levels in both evaluations (EDI level 9, SIBE level 4).  
These scholarships for productivity (publications, graduating students, etc.) include a monetary award of approx. MXN \$240,000 and MXN \$100,000 per year, respectively.
19. **20 reconocimientos** del Instituto Politécnico Nacional por destacada actividad de investigación: 1998, 1999, 2000, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011,



2012, 2013, 2014, 2015, 2016, 2017 y por permanecer en el Sistema Nacional de Investigadores (SNI): 2001, 2002.

20. **Diploma a la Investigación**, por el Instituto Politécnico Nacional (IPN), México, 2009.  
Este premio se otorga a un sólo profesor del IPN por año (el IPN tiene 15,636 profesores; de éstos, 8,865 en los programas de nivel superior y posgrado y 1,069 en Centros de Investigación; datos de 2007). Se otorga por una sola vez en la vida.
21. **Reconocimiento** del Abogado General del Instituto Politécnico Nacional (IPN) por desarrollo del programa de búsqueda para el Reglamento Interno del IPN, 1998.
22. **Reconocimiento** del Centro de Información Científica y Técnica de toda Unión Soviética (VNTICenter, AUSTIC), Moscú, Rusia, por los logros en actividad de investigación y participación en vida social, 1990.
23. **III lugar** en el concurso de trabajos de investigación para jóvenes investigadores del Centro de Información Científica y Técnica de toda Unión Soviética (VNTICenter, AUSTIC), Moscú, Rusia, 1989.

### Mejor artículo, tesis o resultado

24. **Mejor tesis de Doctorado** del IPN, 2029, como director (tesis: *Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations*; alumno: Navonil Majumder).

En el IPN, cada año se presentan más de 650 tesis de posgrado (Maestría y Doctorado). Con este premio se entrega al director y al alumno una remuneración monetaria de 36 mil pesos (\$3500 dólares)

25. **Best PhD thesis** in Artificial Intelligence, first place (as advisor), at the 2020 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations*; alumno: Navonil Majumder (India).
26. **Best MSc thesis** in Artificial Intelligence, third place (as advisor), at the 2020 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Social Media Emotion Detection*; alumno: Muhammad Hammad Fahim Siddiqui.
27. **Best MSc thesis** in Artificial Intelligence, second place (as advisor), at the 2018 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Analysis of Associations between Financial Time Series and Social Network Activity*; alumno: Francisco Javier García López.

28. **Best MSc thesis** in Artificial Intelligence, third place (as advisor), at the 2017 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Multimodal Sentiment Analysis in Social Media using Deep Learning with Convolutional Neural Networks*; alumno: Navonil Majumder (India).
29. **Best Paper Award** at the 2015 Eleventh International Conference on Intelligent Computing, ICIC 2015, August 20–23, Fuzhou, China, for the paper *Is the Most Frequent Sense of a Word Better Connected in a Semantic Network?*, doi: 10.1007/978-3-319-22053-6\_52, out of 671 submissions from 25 countries and regions.
30. **Best PhD thesis** in Artificial Intelligence, first place (as advisor), at the 2014 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Word sense disambiguation through associative dictionaries*; alumno: Francisco Viveros Jiménez.
31. **Best MSc thesis** in Artificial Intelligence, second place (as advisor), at the 2014 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Detección automática de plagio a través de formación de pasajes*; alumno: Miguel Ángel Sánchez Pérez.
32. **Best MSc thesis** in Computer Science of CIC-IPN 2014 (as advisor), for the thesis: *Detección automática de plagio a través de formación de pasajes*; alumno: Miguel Ángel Sánchez Pérez.
33. **Best performing approach** for task “Semantic Parsing” of the “SemWebEval Concept-Level Sentiment Analysis Challenge” at ESWC 2014 to Soujanya Poria, Nir Ofek, Alexander Gelbukh, Amir Hussain, and Lior Rokach for the demonstration of Sentic Demo: A Hybrid Concept Level Aspect Based Sentiment Analysis Toolkit. The award included a monetary prize of €100.
34. **Best PhD thesis** in Artificial Intelligence, second place (as advisor), at the 2013 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Recuperación de información para respuesta a preguntas en documentos legales*; alumno: Alfredo López Monroy.
35. **Best PhD thesis** in Artificial Intelligence, third place (as advisor), at the 2013 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Modelo para la generación automática de resúmenes abstractivos basado en grafos conceptuales*; alumno: Sabino Miranda Jiménez.
36. **Best student paper** award at the 2012 Mexican International Conference on Artificial Intelligence, MICAI-2012, for the paper *Fuzzy Clustering for Semi-Supervised Learning—Case study: Construction of an Emotion Lexicon*.  
This conference received 224 submissions from 28 countries.

37. **Best MSc thesis** in Artificial Intelligence, third place (as advisor), at the 2012 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Generación de musica con gramaticas formales*; alumno: Rodrigo Gabino Ramírez Moreno.
38. **Best paper** award (1<sup>st</sup> place) at the 2011 Mexican International Conference on Artificial Intelligence, MICAI-2011, for the paper *SC spectra: A linear-time soft cardinality approximation for text comparison*.  
This conference received 348 submissions from 40 countries.
39. **Best PhD thesis** in Artificial Intelligence, first place (as advisor), at the 2011 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Automatic extraction of lexical functions*; alumno: Olga Kolesnikova (Russia).
40. **Best paper** award (1<sup>st</sup> place) at the 2010 Mexican International Conference on Artificial Intelligence, MICAI-2010, for the paper *Supervised Machine Learning for Predicting the Meaning of Verb-Noun Combinations in Spanish*.  
This conference received over 300 submissions from 34 countries.
41. **Best PhD thesis** in Artificial Intelligence, second place (as advisor), at the 2010 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Desambiguación de los sentidos de las palabras en español usando textos paralelos*; alumno: Grettel Barceló Alonso (Cuba).
42. **Best MSc thesis** in Artificial Intelligence, second place (as advisor), at the 2010 national competition of MSc theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Word Sense Disambiguation and recognizing Textual Entailment with Statistical Methods*; alumno: Miguel Angel Ríos Gaona.
43. **Best PhD thesis** in Artificial Intelligence, third place (as advisor), at the 2009 national competition of PhD theses in Artificial Intelligence organized by the Mexican Society of Artificial Intelligence (SMIA), for the thesis: *Automatic language-independent detection of multiword descriptions for text summarization*; alumno: Yulia Ledeneva (Russia).
44. **Mejor tesis de Doctorado** del IPN, 2006, como director (tesis: *Determinación automática de roles semánticos usando preferencias de selección sobre corpus muy grandes*; alumno: Hiram Calvo Castro).  
En el IPN, cada año se presentan más de 650 tesis de posgrado (Maestría y Doctorado). Con este premio se entrega al director y al alumno una remuneración monetaria de 36 mil pesos (\$3500 dólares).
45. **Best presentation** award at the 6<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2005, together with Francisco

Hiram Calvo Castro and Adam Kilgarriff, for presentation of the paper *Distributional Thesaurus vs. WordNet: A Comparison of Backoff Techniques for Unsupervised PP Attachment*.

This conference received over 151 submissions from 26 countries.

46. **Best paper** award at the 2000 Mexican International Conference on Artificial Intelligence, MICAI-2000, for the paper *Coherence Maintenance in Man-Machine Dialogue with Ellipsis*.
47. **Best paper** award at the 2000 Mexican International Conference on Artificial Intelligence, MICAI-2000, for the paper *A Data Structure for Prefix Search under Access Locality Requirements and Its Application to Spelling Correction*.

# Actividades profesionales

## Presidente del Comité de Programa o Presidente de los congresos

1. [CICLing 2019](http://www.cicling.org/2019), 20<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, La Rochelle, France, April 7–13, 2019; [www.cicling.org/2019](http://www.cicling.org/2019); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
2. [CICLing 2018](http://www.cicling.org/2018), 19<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Hanoi, Vietnam, March 18–24; [www.cicling.org/2018](http://www.cicling.org/2018); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
3. [CICLing 2017](http://www.cicling.org/2017), 18<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Budapest, Hungary, April 2017; [www.cicling.org/2017](http://www.cicling.org/2017); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
4. [CICLing 2016](http://www.cicling.org/2016), 17<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Konya, Turkey, April 2016; [www.cicling.org/2016](http://www.cicling.org/2016); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
5. [CICLing 2015](http://www.cicling.org/2015), 16<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Cairo, Egypt, April 2015; [www.cicling.org/2015](http://www.cicling.org/2015); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
6. [CICLing 2014](http://www.cicling.org/2014), 15<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Kathmandu, Nepal, April 2014; [www.cicling.org/2014](http://www.cicling.org/2014); memoria *LNCS*, **Springer**; *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.

7. [MICAI 2013](http://www.MICAI.org/2013), 12<sup>th</sup> Mexican International Conference on Artificial Intelligence, [www.MICAI.org/2013](http://www.MICAI.org/2013); November 24–30, 2013, Mexico City, Mexico. Program Committee Co-chair. Proceedings: Springer LNAI and IEEE CS Press; 284 submissions from 45 countries.
8. [CICLing 2013](http://www.cicling.org/2013), 14<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Samos, Greece, March 2013; [www.cicling.org/2013](http://www.cicling.org/2013); memoria *LNCS*, **Springer**; *Research in Computing Science*, *Computación y Sistemas*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
9. NaBIC 2012, 4<sup>th</sup> World Congress on Nature and Biologically Inspired Computing, Mexico City, November, 2012; [www.mirlabs.net/nabic12](http://www.mirlabs.net/nabic12). General co-chair, with Ajith Abraham (USA) & Albert Zomaya (Australia) memoria *IEEE*.
10. [CICLing 2012](http://www.cicling.org/2012), 13<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, New Delhi, India, March 2012; [www.cicling.org/2012](http://www.cicling.org/2012); memoria *LNCS*, **Springer**, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
11. [CICLing 2011](http://www.cicling.org/2011), 12<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Tokyo, Japan, February 2011; [www.cicling.org/2011](http://www.cicling.org/2011); memoria *LNCS*, **Springer**, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
12. MICAI 2010, 9<sup>th</sup> Mexican International Conference on Artificial Intelligence, <http://www.micai.org/2010>; 2010, Pachuca, Mexico. Track chair, memoria: Springer LNAI and *Research in Computing Science*.
13. [CICLing 2010](http://www.cicling.org/2010), 11<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Iași, Rumania, marzo de 2010; [www.cicling.org/2010](http://www.cicling.org/2010); memoria *LNCS*, **Springer**; *Research in Computing Science*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
14. CIC 2009, 18<sup>th</sup> International Conference on Computing, December 2009, Mexico City, Mexico, <http://magno-congreso.ipn.mx/CIC-2009>. Program Committee Chair.
15. MICAI 2009, 8<sup>th</sup> Mexican International Conference on Artificial Intelligence, [www.MICAI.org/2009](http://www.MICAI.org/2009); 2009, Guanajuato, Mexico. Track chair. Proceedings: Springer LNAI and *Research in Computing Science*.
16. [CICLing 2009](http://www.cicling.org/2009), 10<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, México, febrero de 2009; [www.cicling.org/2009](http://www.cicling.org/2009); memoria *LNCS*, **Springer**; *Research in Computing Science*, *Polibits*, and *Informatika* (Slovenia). Conference Chair, Program Committee Chair.



17. CITII 2008, VI Congreso Internacional en Tecnologías Inteligentes y de la Información, October 15–17, 2008, Apizaco, Mexico. <http://sistemas.itapizaco.edu.mx/~citi08>. Presidente de las áreas de *Procesamiento del Lenguaje Natural*, *Reconocimiento Automático del Habla*, y *Semántica de la Web*.
18. CIC 2008, 17<sup>th</sup> International Conference on Computing, December 3–5, Mexico City, Mexico, <http://magno-congreso.ipn.mx/CIC-2008>. Program Committee Chair.
19. IBERAMIA 2008, 11th Iberoamerican Conference on Artificial Intelligence, Lisbon, Portugal, October 14–17, 2008. Area chair. Proceedings: *LNAI*, **Springer**, ISSN 0302-9743.
20. MICAI 2008, 7<sup>th</sup> Mexican International Conference on Artificial Intelligence, [www.MICAI.org/2008](http://www.MICAI.org/2008); October 27–31, 2008, Atizapán de Zaragoza, Mexico. Program Committee Co-chair. Proceedings: Springer LNAI and IEEE CS Press; 363 submissions from 43 countries.
21. ENC 2008, 9<sup>th</sup> Mexican International Conference on Computer Science; [enc.smcc.org.mx](http://enc.smcc.org.mx); October 6–10, 2008; Mexicali, Mexico. Memorias IEEE y *Research in Computing Science*. Honorary Co-chair and Program Committee Co-chair.
22. **CICLing 2008**, 9<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Haifa, Israel, February 2008; [www.cicling.org/2008](http://www.cicling.org/2008); memorias LNCS, **Springer**; *Research in Computing Science*, and *Language Forum*. Conference Chair, Program Committee Chair.
23. ENC 2007, Encuentro Nacional de Computación; [enc.smcc.org.mx/enc07](http://enc.smcc.org.mx/enc07); September 24–28, 2007; Morelia, Mexico. Workshop Coordinator.
24. **CICLing 2007**, 8<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, México, febrero de 2007; [www.cicling.org/2007](http://www.cicling.org/2007), memoria LNCS, **Springer**. Conference Chair, Program Committee Chair, Organizing Committee Chair.
25. CIC 2007, 16<sup>th</sup> International Conference on Computing; [magno-congreso.cic.ipn.mx/CIC-2007](http://magno-congreso.cic.ipn.mx/CIC-2007); November 4–9, 2007, Mexico City, Mexico. Program Committee Co-chair. 196 submissions.
26. MICAI 2007, 6<sup>th</sup> Mexican International Conference on Artificial Intelligence, [www.MICAI.org/2007](http://www.MICAI.org/2007); November 4–10, 2007, Aguascalientes, Mexico. Program Co-chair. Proceedings: Springer LNAI, IEEE CS Press, and other; 445 submissions from 43 countries.
27. CIC 2006, 15<sup>o</sup> Congreso Internacional de Computación; Program Co-chair. Proceedings: IEEE CS Press. 196 submissions.
28. MICAI 2006, 5<sup>th</sup> Mexican International Conference on Artificial Intelligence, [www.MICAI.org](http://www.MICAI.org); Program Co-chair. Proceedings: Springer LNAI, IEEE CS Press, and Research on Computing Science; 448 submissions from 42 countries.

29. CORE 2006, 7° Congreso Nacional de Computación, mayo de 2006, CIC, IPN, México; [www.core-cic.org](http://www.core-cic.org), memoria: revista *Research in Computing Science*, 2 volúmenes.
30. **CICLing 2006**, 7<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, México, febrero de 2006 ([www.cicling.org](http://www.cicling.org)), memoria *LNCS*, **Springer** and *Research on Computing Science*. Conference Chair, Program Committee Chair, Organizing Committee Chair.
31. MICAIA 2005, Mexican International Conference on Artificial Intelligence, [www.MICAIA.org](http://www.MICAIA.org); Program Co-chair. Proceedings: Springer *LNAI* and *Research on Computing Science*; 426 submissions from 43 countries.
32. CORE 2005, 6° Congreso Nacional de Computación, mayo de 2005, CIC, IPN, México; [www.core-cic.org](http://www.core-cic.org), memoria: revista *Research on Computing Science*.
33. **CICLing 2005**, 6<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, México, febrero de 2005 ([www.cicling.org](http://www.cicling.org)), memoria *LNCS*, **Springer**. Conference Chair, Program Committee Chair, Organizing Committee Chair.
34. **Herramientas y Recursos Lingüísticos para el Español y el Portugués**; co-Chair, with [Nuno João Neves Mamede](#) (L2F / INESC-ID, Portugal), [Vera Lúcia Strube de Lima](#) (PUCRS, Brasil), [Luis Alfonso Ureña López](#) (Univ. de Jaén, España), [Luis Villaseñor Pineda](#) (INAOE, México). Workshop at **IBERAMIA-2004**, 9th Iberoamerican Conference on Artificial Intelligence, Puebla, Mexico, 22 to 26 November 2004, **Springer**, Lecture Notes in Artificial Intelligence, N., ISSN 0302-9743, ISBN.
35. Workshop on Human Language Technologies at the ENC-2004, 5<sup>th</sup> Mexican International Conference on Computer Science (with Manuel Montes y Gómez and Luis Villaseñor Pineda); [enc.smcc.org.mx/2004](http://enc.smcc.org.mx/2004).
36. CORE 2004, 5° Congreso Nacional de Computación, mayo de 2004, CIC, IPN, México; [www.core-cic.org](http://www.core-cic.org), memoria con ISBN.
37. WSEAS conferences, Cancun, Mexico, May 12–15, 2004: 6th WSEAS Int. Conf. on Algorithms, Scientific Computing, Modelling and Simulation (**ASCOMS '04**), 6<sup>th</sup> WSEAS Int. Conf. on Telecommunications and Informatics (**TELE-INFO'04**), 3<sup>rd</sup> WSEAS Int. Conf. on Applications of Electrical Engineering (**AEE '04**), 6th WSEAS Int. Conf. on Mathematics and Computers in Physics (**MCP '04**), 6th WSEAS Int. Conf. on Applied Physics (**ICAP '04**); Program Committee Co-Chair (Chair: Alexander Zemliak).
38. ENC 2004, 5<sup>th</sup> Mexican International Conference on Computer Science, Workshop Chair (with Miguel Arias); [enc.smcc.org.mx/2004](http://enc.smcc.org.mx/2004).
39. **CICLing 2004**, 5<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Seoul, Korea, 15–21 de febrero de 2004 ([www.cicling.org](http://www.cicling.org)), memorias *LNCS* N 2945, **Springer**. Conference Chair, Program Committee Chair, Organizing Committee Co-Chair (with [Sang Yong Han](#)).



40. Natural Language Engineering for Machine Translation and Knowledge Management Systems (co-Chair, with E. Kozerenko); [www.keywen.com/1](http://www.keywen.com/1), technical session at MLMTA 2003, International MultiConference in Computer Science & Computer Engineering, June 23–26, 2003, Monte Carlo Resort, Las Vegas, Nevada, USA; [personal.ashland.edu/~iajwa/conferences/2003/MLMTA](http://personal.ashland.edu/~iajwa/conferences/2003/MLMTA).
41. CORE 2003, 4º Congreso Nacional de Computación, 6–7 de mayo de 2003, CIC, IPN, México; [www.cic.ipn.mx/core](http://www.cic.ipn.mx/core), memoria con ISBN.
42. NLPKE 2003, IEEE International Symposium on Natural Language Processing and Knowledge Engineering, Beijing, China, October, 2003; [www.cie-china.org/nlpke2003](http://www.cie-china.org/nlpke2003). Co-chair, with Kang K. Yen and Chengqing Zong.
43. **CICLing 2003**, 4<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 16–22 de febrero de 2003 ([www.cicling.org](http://www.cicling.org)), memorias LNCS N 2588, **Springer**. Organizer; Program and Organizing Committee Chair.
44. CIC 2002, XII International Conference in Computing, National Polytechnic Institute, Mexico City, November 25–29, 2002 ([www.cic.ipn.mx/eventos/cic2002/english.htm](http://www.cic.ipn.mx/eventos/cic2002/english.htm)). Co-chair of the Area of Artificial Intelligence, together with Fuji Ren (Tokushima City University, Japan).
45. NLPKE 2002, IEEE International Symposium on Natural Language Processing and Knowledge Engineering, in conjunction with IEEE conference SMC-2002: Systems, Man, and Cybernetics, Hammamet, Tunisia, October 6–9, 2002. Co-chairing together with Fuji Ren (Tokushima City University, Japan).
46. **CICLing 2002**, 3<sup>rd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 17–23 de febrero de 2002 ([www.cicling.org](http://www.cicling.org)), memorias LNCS N 2276, **Springer**. Organizer; Program and Organizing Committee Chair.
47. **CICLing 2001**, 2<sup>nd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 18–24 de febrero de 2001 ([www.cicling.org](http://www.cicling.org)), memorias LNCS N 2004, **Springer**. Organizer; Program and Organizing Committee Chair.
48. **CICLing 2000**, 1<sup>st</sup> International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 13–19 de febrero de 2000 ([www.cicling.org](http://www.cicling.org)), Memorias ISBN 970-18-4206-5, IPN. Organizer; Program and Organizing Committee Chair.

## Miembro del Comité de Programa de los congresos

**Nota:** esta lista está muy incompleta y ya no se actualiza debido a demasiado gran número de elementos.

1. [Dialogue 2017](#), Computational Linguistics and Intelligent Technologies, Russia.
2. Dialogue-2006, Computational Linguistics and Intelligent Technologies, 2006, ISBN 5-7281-0900-4, Russia.
3. DEXA-2005, 16<sup>th</sup> International Conference Database and Expert Systems Applications (Program Committee member). Proceedings: LNCS, **Springer**. Contact: Roland Wagner [rrwagner at faw.uni-linz.ac.at]; [www.dexa.org](http://www.dexa.org).
4. CI-2005, IASTED International Conference on Computational Intelligence, Calgary, Canada from July 04–06, 2005 (International Program Committee member); [www.iasted.com/conferences/2005/calgary/c487.htm](http://www.iasted.com/conferences/2005/calgary/c487.htm); [www.iasted.com/conferences/2005/calgary/ci.htm](http://www.iasted.com/conferences/2005/calgary/ci.htm).
5. AIA-2005, IASTED International Conference on Artificial Intelligence and Applications, part of the 23<sup>rd</sup> IASTED International Multi-Conference on Applied Informatics, Innsbruck, Austria, February 14–16, 2005, [www.iasted.org/conferences/2005/innsbruck/aia.htm](http://www.iasted.org/conferences/2005/innsbruck/aia.htm).
6. DBA-2005, IASTED International Conference on Databases and Applications, part of the 23<sup>rd</sup> IASTED International Multi-Conference on Applied Informatics, Innsbruck, Austria, February 14–16, 2005; [www.iasted.org/conferences/2005/innsbruck/dba.htm](http://www.iasted.org/conferences/2005/innsbruck/dba.htm).
7. NLUCS-2005, The Second International Workshop on Natural Language Understanding and Cognitive Science, May 24, 2005, Miami, USA.
8. ISSADS 2005, Fifth International Symposium and School on Advance Distributed Systems, 2005, Mexico, **Springer**, Lecture Notes in Computer Science, N.; [www.cinvestav.mx/gdl/issads](http://www.cinvestav.mx/gdl/issads).
9. Workshop on Lexical resources and the Web for Word Sense Disambiguation at IBERAMIA-2004, Iberoamerican Conference on Artificial Intelligence, November 2004, Presidente: Paolo Rosso.
10. Workshop (Special Session) on Text Processing: Theory and Applications at 5th WSEAS Int. Conf. on Automation and Information (ICAI'04). Venice, Italy. [www.worldses.org/conferences/2004/italy/icai/text/index.html](http://www.worldses.org/conferences/2004/italy/icai/text/index.html); contact: Yaakov HaCohen-Kerner [kerner at mail.jct.ac.il].
11. 2004 WSEAS International Conference on Engineering Education, Venice, Italy, November 15–17, 2004, [www.worldses.org/conferences/2004/italy/ee/committee.htm](http://www.worldses.org/conferences/2004/italy/ee/committee.htm).
12. Document Design Conference (international conference), [Tilburg University](#), The Netherlands, January 22–24, 2004 ([let.uvt.nl/docdes/conference2004](http://let.uvt.nl/docdes/conference2004); contact: [Cathy de Waele](#)). Reviewing Committee member.
13. Information'2004, The 3<sup>rd</sup> International Conference on Information. Hosei University and International Information Institute, November 29 – December 2, 2004, Hosei University, Tokyo, Japan ([www.information-iii.org/conf/info2004.html](http://www.information-iii.org/conf/info2004.html)).

14. IBERAMIA-2004, 9th Iberoamerican Conference on Artificial Intelligence, Puebla, Mexico, from the 22th to the 26th of November 2004, **Springer**, Lecture Notes in Artificial Intelligence, N., ISSN 0302-9743, ISBN.; [www.inaoep.mx/iberamia2004](http://www.inaoep.mx/iberamia2004).
15. ASC 2004, IASTED International Conference on Artificial Intelligence and Soft Computing, Marbella, Spain, September 1–3, 2004.
16. ISSADS 2004, Fourth IEEE International Symposium and School on Advance Distributed Systems, January 28–30, 2004, Guadalajara, Jalisco, Mexico; [eclipse.red.cinvestav.mx/gdl/issads](http://eclipse.red.cinvestav.mx/gdl/issads).
17. ACST 2004, IASTED International Conference on Advances in Computer Science and Technology, St. Thomas, Virgin Islands, USA, November 22–24, 2004 ([www.iasted.org/conferences/2004/vi/acst.htm](http://www.iasted.org/conferences/2004/vi/acst.htm)).
18. CISCi-2004, 2<sup>nd</sup> Iberoamerican Conference on Systems, Cybernetics, and Informatics, July 21 to 25, 2004, Orlando, USA ([www.iiisci.org/cisci2004/WebSite/ProgramCommitte.asp](http://www.iiisci.org/cisci2004/WebSite/ProgramCommitte.asp)). International Institute of Informatics and Systemics (IIS, [www.iiis.org](http://www.iiis.org)) with cooperation of Organización Universitaria Interamericana and Instituto Internacional de Sistemas.
19. TSD-2004, 7<sup>th</sup> International Conference “Text, Speech, Dialogue,” Czech Rep., September 2004, publication: **Springer** Lecture Notes in Artificial Intelligence.
20. DEXA-2004, 15<sup>th</sup> International Conference Database and Expert Systems Applications, Zaragoza, Spain, 2004. Proceedings: LNCS, **Springer**.; [www.dexa.org](http://www.dexa.org).
21. Dialogue-2004, Annual International Conference on Computational Linguistics and Applications, Russian Institute for Artificial Intelligence, Russian Academy of Sciences, and Association Dialogue, Russia, 2004, [www.dialog-21.ru/dialog.asp?page=13921&parent\\_menu\\_id=710](http://www.dialog-21.ru/dialog.asp?page=13921&parent_menu_id=710).
22. NLUCS-2004, The First International Workshop on Natural Language Understanding and Cognitive Science ([www.iceis.org/workshops/nlucs/nlucs2004-cfp.html](http://www.iceis.org/workshops/nlucs/nlucs2004-cfp.html)) at ICEIS-2004, 6th International Conference on Enterprise Information Systems ([www.iceis.org](http://www.iceis.org)), Universidade Portucalense, Porto, Portugal, April 14–17, 2004.
23. CLEI-2004, 30 Conferencia Latinoamericana de Informática, Arequipa, Peru, September 2004. Contact: Mauricio Solar [msolar at usach.cl].
24. CIINDET 2004, 2<sup>o</sup> Congreso Internacional de Innovacion y Desarrollo Tecnológico, Cuernavaca, Morelos, 19–23 de noviembre de 2004. Contact: V. Rodolfo Garcia Colon H. [gcolon at iie.org.mx].
25. MLMTA-04, International MultiConference in Computer Science & Computer Engineering, Las Vegas, Nevada, USA, June 21–24, 2004; [www.world-academy-of-science.org/IMCSE2004/ws/MLMTA](http://www.world-academy-of-science.org/IMCSE2004/ws/MLMTA).

26. DBA 2004, IASTED International Conference on Databases and Applications as part of the 22<sup>nd</sup> IASTED International Multi-Conference on Applied Informatics, February 17–19, 2004, Innsbruck, Austria ([www.iasted.org/conferences/2004/Innsbruck/c419.htm](http://www.iasted.org/conferences/2004/Innsbruck/c419.htm)).
27. NLDB-2004, 9<sup>th</sup> International Conference on Application of Natural Language to Information Systems, 23–25 June 2004, Salford, Manchester, UK, publication in Lecture Notes in Computer Science, **Springer**.
28. LREC2004, 4<sup>th</sup> International Conference on Language Resources and Evaluation, Lisbon, Portugal, 26–28 May 2004, [www.lrec-conf.org/lrec2004](http://www.lrec-conf.org/lrec2004).
29. AIA 2004, IASTED International Conference on Artificial Intelligence and Applications as part of the 22<sup>nd</sup> IASTED International Multi-Conference on Applied Informatics, February 16–18, 2004, Innsbruck, Austria ([www.iasted.org/conferences/2004/Innsbruck/c411.htm](http://www.iasted.org/conferences/2004/Innsbruck/c411.htm), [aia.htm](http://aia.htm)).
30. MICAI-2004, *Mexican International Conference on Artificial Intelligence*, México, 2002, memoria LNAI, ISBN 3-540-43475-5, **Springer** ([gsidom.iie.org.mx/micai2004.html](http://gsidom.iie.org.mx/micai2004.html)).
31. **DEXA-2003**, 14<sup>th</sup> International Conference Database and Expert Systems Applications, 2003. Proceedings: LNCS, **Springer**.
32. **WSEAS conferences, 2003**: 3rd WSEAS Int. Conf. on Instrumentation, Measurement, Control, Circuits and Systems (IMCCAS-03), 3rd WSEAS Int. Conf. on Information Science and Applications (ISA-03), 3rd WSEAS Int. Conf. on Soft Computing, Optimization, Simulation & Manufacturing Systems (SOSM-03), 5th WSEAS Int. Conf. on Mathematics and Computers in Physics (MCP-03), and 5th WSEAS Int. Conf. on Mechanical Engineering Multiconference (MEM-03).
33. I Congreso Internacional de javaHispano, October 2003, Madrid, Spain ([congreso.javahispano.org](http://congreso.javahispano.org)).
34. Dialogue-2003, Annual International Conference on Computational Linguistics and Applications, Russian Institute for Artificial Intelligence, Russian Academy of Sciences, and Association Dialogue, ISBN 5-02-0028-26-6, Nauka Publ., Moscow, Russia, 2003, [www.dialog-21.ru/english.asp?param=2343](http://www.dialog-21.ru/english.asp?param=2343).
35. ENC-2003, 4<sup>o</sup> Encuentro Internacional de Ciencias de la Computación, Apizaco, Tlaxcala, México, 8–12 de septiembre de 2003; [www.lania.mx/~smcc/enc03](http://www.lania.mx/~smcc/enc03).
36. CISCI-2003, 2<sup>nd</sup> Iberoamerican Conference on Systems, Cybernetics, and Informatics, July 31 to August 2, 2003, Orlando, USA ([216.72.45.230:1081/cisci2003/ComProgram.asp](http://216.72.45.230:1081/cisci2003/ComProgram.asp); [www.iiisci.org/cisci2003](http://www.iiisci.org/cisci2003)). Honorary Chair: Freddy Malpica, Chair: Jorge Baralt. Organized by: International Institute of Informatics and Systemics (IIS, [www.iiis.org](http://www.iiis.org)) with cooperation of Organización Universitaria Interamericana and Instituto Internacional de Sistemas.

37. SCI-2003, 7<sup>th</sup> World Multiconference on Systems, Cybernetics, and Informatics, July 27–30, 2003, Orlando, USA ([www.iiis.org/sci2003/ProgramCommittee.htm](http://www.iiis.org/sci2003/ProgramCommittee.htm); [www.iiisci.org/sci2003](http://www.iiisci.org/sci2003)). Chair: William Lesso. Organized by: International Institute of Informatics and Systemics (IIIS, [www.iiis.org](http://www.iiis.org)).
38. RANLP-2003, 4<sup>th</sup> International Conference on Recent Advances in Natural Language Processing, 10–12 Sept., 2003, Borovets, Bulgaria. Program chair Ruslan Mitkov (U. Worlverhampton, U.K.).
39. AIA 2003, IASTED International Conference on Artificial Intelligence and Applications, September 8–10, 2003, Benalmádena, Spain ([www.iasted.org/conferences/2003/spain/c403.htm](http://www.iasted.org/conferences/2003/spain/c403.htm)).
40. MLMTA-03, International MultiConference in Computer Science & Computer Engineering, June 23–26, 2003, Monte Carlo Resort, Las Vegas, Nevada, USA; [personal.ashland.edu/~iajwa/conferences/2003/MLMTA](http://personal.ashland.edu/~iajwa/conferences/2003/MLMTA).
41. NLDB-2003, 8<sup>th</sup> International Conference on Application of Natural Language To Information Systems, June 23–25, 2003, Burg, Germany; publication in Lecture Notes in Informatics.
42. IDEAS-2003, 6<sup>o</sup> Workshop Ibero-Americano de Ingeniería de requisitos y ambientes de software, Asunción, Paraguay, 30 de abril a 2 de mayo de 2003; [alarcos.inf-cr.uclm.es/ideas2003](http://alarcos.inf-cr.uclm.es/ideas2003).
43. CST 2003, IASTED International Conference on Computer Science and Technology, Cancun, Mexico, May 19–21 2003; [www.iasted.org/conferences/2003/cancun/cst.htm](http://www.iasted.org/conferences/2003/cancun/cst.htm); [www.iasted.org/conferences/2003/cancun/c394.htm](http://www.iasted.org/conferences/2003/cancun/c394.htm).
44. MICAI-2002, *Mexican International Conference on Artificial Intelligence*, México, 2002, Memorias LNAI N 2313, ISBN 3-540-43475-5, **Springer**.
45. CISCI-2002, Iberoamerican Conference on Systems, Cybernetics, and Informatics, June 19–21, 2002, Orlando, USA ([216.72.45.230:1081/cisci/comprogram.htm](http://216.72.45.230:1081/cisci/comprogram.htm); [www.iiisci.org/sci2002](http://www.iiisci.org/sci2002)). Honorary Chair: Freddy Malpica, Chair: Jorge Baralt. Organized by: International Institute of Informatics and Systemics (IIIS, [www.iiis.org](http://www.iiis.org)) with cooperation of Organización Universitaria Interamericana and Instituto Internacional de Sistemas.
46. MLIA: Multilingual Information Access and Natural Language Processing, workshop at the IBERAMIA-2002, Seville, Spain, November 2003; [sensei.lsi.uned.es/iberamia-mlia](http://sensei.lsi.uned.es/iberamia-mlia).
47. XV Congreso Nacional y I Congreso Intenacional de Informática y Computación de la ANIEI, 2002, Mexico.
48. SCI-2002, International Conference on Systems, Cybernetics, and Informatics, June 19–21, 2002, Orlando, USA ([www.iiis.org/sci2002/ProgramCommittee.htm](http://www.iiis.org/sci2002/ProgramCommittee.htm); [www.iiisci.org/sci2002](http://www.iiisci.org/sci2002)). Chair: William Lesso. Organized by: International Institute of Informatics and Systemics (IIIS, [www.iiis.org](http://www.iiis.org)).

49. ISADS-2002, 5<sup>th</sup> International Symposium on Autonomous Decentralized Systems; [pitts.cucea.udg.mx/~isads](http://pitts.cucea.udg.mx/~isads).
50. CIC-2001, XI International Conference in Computing, National Polytechnic Institute, Mexico City, November 12–16, 2001.
51. *EuroConference RANLP-2001*, 3<sup>rd</sup> International Conference on Recent Advances in Natural Language Processing, 5–7 Sept 2001, Tzigov Chark, Bulgaria, patrocinado por la European Commission, DGXII a través del Human Potential Programme for High-Level Scientific Conferences (contract HPCF-2000-00329). Program chair Ruslan Mitkov (U. Worlverhampton, U.K.).
52. NLPKE-2001, *Mini symposium on Natural Language Processing and Knowledge Engineering* ([crater.sie.arizona.edu/nlpke.html](http://crater.sie.arizona.edu/nlpke.html)) at IEEE conference SMC-2001, Systems, Man, And Cybernetics (<http://crater.sie.arizona.edu/index2.html>), Tucson, Arizona, USA, October 7–10, 2001. Honorary chair Jun'ichi Tsujii (UMIST, U.K.; University of Tokyo, Japan); program chair Fuji Ren (Hiroshima City University, Japan).
53. CISC 2001, 3<sup>er</sup> Congreso Internacional de Sistemas Computacionales, Inst. Tecnológico de Veracruz, 5–7 de septiembre de 2001.
54. MICAI-2000, *Mexican International Conference on Artificial Intelligence*, Acapulco, México, 10–14 de abril de 2000, memoria ISBN 970-18-4465-3.
55. CIC-2000, X International Conference in Computing, National Polytechnic Institute, Mexico City, November 13–17 2000.

## **Evaluación de proyectos, becas y promoción docente**

1. Evaluador del proyecto de investigación nacional, CONACYT: convocatoria *Investigación en Fronteras de la Ciencia*, 2016, proyecto 2410: *Fuerza de atracción textual: hacia un nuevo paradigma de clasificación de documentos*.
2. Evaluador externo para la promoción docente, School of Computing, Salford University (caso del Prof. Farid Meziane, 2012).
3. Evaluador externo para la promoción docente, Department of Computer Science, University of Haifa (caso del Prof. Shuly Wintner, 2010).
4. Evaluador para el CONACYT (proyectos de investigación, área de computación) en convocatorias 1998, 1999, 2000, 2001, 2002, 2003, 2004, probablemente otros años también; 2007 (4 proyectos convocatoria básica 2007, evaluados en 2008).
5. Evaluador externo para la promoción docente, Instituto de Ingeniería, UNAM (caso del Prof. Gerardo Sierra Martínez, 2004).
6. Evaluador del proyecto de investigación internacional (USD \$40,000), Laboratorio Avanzado Franco-Mexicano de Informática (LAFMI), 2004.



7. Evaluador del proyecto de investigación nacional (MXN \$500,000), convocatoria CONACyT-SEMARNAT, 2004.
8. Miembro del Comité de Evaluación 2003 del Programa de estancias de Verano en EEUU para investigadores jóvenes de la Academia Mexicana de Ciencias (AMC) y la Fundación México-Estados Unidos para la Ciencia (FUMEC); coordinador Dr. Eusebio Juaristi Cosío.
9. Evaluador externo para la promoción docente, Department of Computer Science, University of Minnesota Duluth (caso del Prof. Ted Pedersen, 2002).

### Otras actividades profesionales

1. Miembro fundador (entre [19 fundadores](#)) de la **Academia Mexicana de Computación (AMEXCOMP)**, 2015.
2. **Technical Committee member, Soft Computing Technical Committee** of the IEEE Systems, Man, and Cybernetics Society, since 2014.
3. Presidente, Sociedad Mexicana de Inteligencia Artificial (**SMIA**), 2013–2014. Vocal de la Mesa Directiva, 2004–2006; Secretario de la Mesa Directiva, 2006–2010; Vicepresidente, 2010–2012; Presidente del Consejo de Expresidentes, 2015–2016; miembro del Consejo de Expresidentes, desde 2017; socio de la SMIA num. 800694.
4. Conferenciante de la ACM (Association for Computing Machinery), Distinguished Lectureship Program of ACM for Mexico and Central America, desde 2000 ([hipernexos.escom.ipn.mx/cgelbuk.html](http://hipernexos.escom.ipn.mx/cgelbuk.html)).
5. Conferenciante distinguido de la Sociedad Mexicana de Inteligencia Artificial (**SMIA**), desde 2006.
6. Miembro del directorio de expertos de la European Network for Excellence in Human Language Technology (ELSNET) ([www.elsnet.org](http://www.elsnet.org), [utrecht.elsnet.org/cgi-ksh/show\\_experts.ksh?expert1137](http://utrecht.elsnet.org/cgi-ksh/show_experts.ksh?expert1137)).
7. Miembro del *Directorio de personal calificado en informática y tecnología inmersa para el proceso de conversión Año 2000* por el Gobierno de México.
8. Participó en el Convenio académico y de investigación entre el Instituto Politécnico Nacional, Centro de Investigación en Computación México, D.F. y el INAOE, Puebla.
9. Miembro de la ACM (Association for Computing Machinery), desde 2000.
10. Coordinador del grupo de investigación miembro de la red RITOS-2 de CYTED formado en 1999. Representante del Instituto Politécnico Nacional (México) ante la RITOS-2.
11. Miembro del **IASTED** Technical Committee on Artificial Intelligence and Expert Systems for the term 2002–2005.

12. Miembro (2001–2002) y Presidente (2002–2003) de la Comisión de Doctorado del Centro de Investigación en Computación del IPN, México.
13. Profesor del Programa de Verano de la Investigación Científica de la Academia Mexicana de Ciencias, años 2001, 2002, 2003.
14. ACM Reviewer for Computing Reviews, ISSN 1530-6585, reviewer number 6087, since 2004; [www.reviews.com](http://www.reviews.com).
15. [WSEAS](#) Scientific Committee member, since 2004.
16. Colaborador en la elaboración del libro: Caridad Anías Calderón, Yoel Ledo Mezquita (eds.) *La telemática y su aplicación en la educación a distancia y en la informatización de la sociedad*. Editorial Félix Varela, Cuba, ISBN 959-261-042-8, tomos I, II.



# Investigación y desarrollo de software

## Proyectos de investigación: nacionales e internacionales

1. *Análisis multilingüe de veracidad y perfil de autor en redes sociales*. CONACYT A1-S-47854 (director), MXN \$1,644,000 = USD \$84,707, 2019–2022 (3 years).
2. *Answer Validation through Textual Entailment*. CONACYT – DST India (CONACYT 122030 / México-India 2011–2014) (codirector, with [Sivaji Bandyopadhyay](#) of Jadavpur University, India); Rs. 2,670,000 + MXN \$497,200; 2011–2014 (3 years).
3. *Desarrollo del corpus paralelo alineado español-inglés usando desambiguación automática global con diccionarios bilingües*. CONACYT 50206-H (director). MXN \$735,000; 2007–2009.
4. *Clasificación y recuperación de información inteligente en las colecciones de documentos en español, basados en métodos de lingüística computacional*. CONACYT 38698-A (director), MXN \$555,615; 2002–2005 (3 años).
5. *Buscador de conceptos en redes informáticos de conocimiento basado en agentes*. REDII-CONACYT, Mexico City (conjunto con ITESM campus Monterrey, director), MXN \$150,000; 2000.
6. *La compilación de un corpus representativo de contextos de palabras en español y la tecnología de la compilación, a través del mismo, del diccionario estadístico de subcategorización del español*. CONACYT 32003-A (director), MXN \$266,968; 2000–2002.
7. *Mecanismos de computación biológica en lingüística matemática*. Proyecto conjunto entre la Universidad Rovira i Virgili, España – IPN – UNAM, financiado por el Programa de Cooperación Científica con Iberoamérica del Ministerio español de Educación, Cultura y Deporte, España, primera fase 2000–2001 (1 año), segunda fase 2001–2002 (1 año) (coordinador del grupo del IPN; director Dr. Carlos Martín Vide, España).
8. *La extracción de un diccionario grande de patrones de manejo para el análisis sintáctico y generación de textos en español, a partir de un corpus*. REDII-CONACYT, Mexico City (director), MXN \$226,000; 1999.

## Proyectos de investigación: institucionales

9. *Modelos del lenguaje, sentimientos y opiniones con métodos de aprendizaje automático y aprendizaje profundo*. SIP-IPN [20200859](#) ([director](#)), MXN \$ 96,592 = USD 4,334, 2020.
10. *Modelos del lenguaje, sentimientos y opiniones con métodos de aprendizaje automático y aprendizaje profundo*. SIP-IPN [20196437](#) ([director](#)), MXN \$94,550 = USD 4,872, 2019.
11. *Análisis de opiniones y de autoría en los textos y datos multimodales con redes neuronales*. SIP-IPN [20181792](#) ([director](#)), 2018.
12. *Aplicaciones de redes neuronales convolucionales al análisis de redes sociales*. SIP-IPN [20172008](#) ([director](#)), MXN \$95,000 = USD \$5,300, 2017.
13. *Tratamiento computacional de afectividad en el texto y en la música*. SIP-IPN [20161958](#) ([director](#)), MXN \$87,000, 2016.
14. *Análisis sintáctico y semántico de textos aplicado a tareas de educación, derecho y redes sociales*. SIP-IPN [20152100](#) ([director](#)), MXN \$15,000, 2015.
15. *Extracción de hechos y desambiguación en la detección de opiniones y polaridad en el texto*. SIP-IPN [20144534](#) ([director](#)), MXN \$66,000, 2014.
16. *Análisis de expresiones compuestas, afectividad y personalidad en los textos con los métodos de aprendizaje automático*. SIP-IPN [20131702](#) ([director](#)), 2013.
17. *Desambiguación y agrupación automática de los sentidos de las palabras para las aplicaciones en el procesamiento computacional de lenguaje natural*. SIP-IPN [20121823](#) ([director](#)), 2012.
18. *Detección de la implicación textual y relaciones léxicas en los textos en lenguaje natural* ([director](#)). Part I: SIP-IPN [20100773](#), MXN \$49,000, 2010; Part II: SIP-IPN [20113295](#), 2010–2011.
19. *Medidas de ponderación y funciones de semejanza entre las palabras, para el procesamiento inteligente de texto, desambiguación semántica y clasificación de documentos en lenguaje natural*. SIP-IPN [20091587](#) ([director](#)), MXN \$46,999, 2009.
20. *Generación de resúmenes de textos por computadora con la detección automática de expresiones multipalabra*. SIP-IPN [20082936](#) ([director](#)), MXN \$42,999, 2008.
21. *Análisis global y local de diccionarios electrónicos para la desambiguación de sentidos de palabras y generación de texto*. Parte 1. SIP-IPN [20061299](#) ([director](#)), MXN \$64,000, 2006. Parte 2. SIP-IPN [20071753](#) ([director](#)), MXN \$63,000, 2007.
22. *Métodos de aprendizaje automático estadístico para la resolución de ambigüedad de sentido de palabras a través de combinaciones de palabras*. CGPI-IPN [20051184](#) ([director](#)), MXN \$67,000, 2005–2006.

23. *Extracción automática de los grafos conceptuales de los textos en español, con aplicaciones a la recuperación de información.* CGPI-IPN [20040694](#) ([director](#)), MXN \$50,500, 2004–2005.
24. *Resolución automática de ciertos casos de correferencia en los textos en español.* CGPI-IPN [20031715](#) ([director](#)), MXN \$75,000, 2003.
25. *Métodos de comparación temática y semántica inteligente de los documentos en español.* CGPI-IPN 20020236 ([director](#)), 2002.
26. *Un diccionario amplio de contextos de uso de palabras de baja y media frecuencia en el español para la extracción automática de la información lingüística estadística de ciertos tipos.* CGPI-IPN 20010768 (parte del Programa 18.04) ([director](#)), 2001.
27. *Generación de bases y explotación de sistemas basados en conocimientos, parte 3: métodos basados en colocaciones.* Programa CGPI-IPN 18.04 ([coordinador](#)), MXN \$90,000; 2001–2002.
28. *Sistema de traducción semiautomática de los diccionarios semánticos y su empleo para la resolución de ambigüedades en el texto.* CGPI-IPN 200123 ([director](#)), MXN \$50,000; 2000.
29. *Métodos de aprendizaje automático de los diccionarios sintácticos y resolución de ambigüedades sintácticas a través de la atracción léxica.* CGPI-IPN 990461 ([director](#)), MXN \$17,000; 1999.
30. *Búsqueda y clasificación inteligente en las bases de datos de documentos jurídicos en el español de México.* CGPI-IPN 990081 ([director](#)), MXN \$45,000; 1999.
31. *Generación de bases y explotación de sistemas basados en conocimientos, parte 2: clasificación de documentos y compilación de ontologías.* Programa DEPI-IPN ([coordinador](#)), MXN \$60,000; 1998.
32. *Compilación de tablas de normalización y diccionarios de palabras con semántica incompleta para la clasificación semántica de documentos en español y el aprendizaje automático de ontologías.* DEPI-IPN 980772 ([director](#)), 1998.
33. *Generación de bases y explotación de sistemas basados en conocimientos, parte 1.* Programa DEPI-IPN ([coordinador](#)), MXN \$60,000 1997.
34. *Construcción de un analizador sintáctico para textos en español, basado en las gramáticas extendidas independientes del contexto.* DEPI-IPN 970312 ([director](#)), 1997.
35. *Desarrollo de las herramientas a nivel morfológico para el procesamiento y la investigación de textos en español.* DEPI-IPN 970311 ([director](#)), 1997.

## Proyectos de investigación: como participante

36. *Extracción automática de eventos clínicos desde textos médicos*. SIP [20181849](#) (participante; director: [G. Sidorov](#)), 2018.
37. *Construcción y análisis comparativo de medidas de similitud y asociación para diferentes áreas de aplicación*. SIP [20171344](#) (participante; director: [I. Batyrshin](#)), 2017.
38. *Identificación automática del lenguaje nativo de autores de textos*. SIP [20171813](#) (participante; director: [G. Sidorov](#)), MXN \$87,000, 2017.
39. *Desarrollo de métodos de análisis de relaciones entre variables usando medidas de asociación*. SIP [20162204](#) (participante; director: [I. Batyrshin](#)), 2016.
40. *Compilación de un corpus de códigos de programas y su evaluación en la clasificación automática*. SIP [20151406](#) (participante; director: [G. Sidorov](#)), MXN \$48,000, 2015.
41. *Desarrollo de métodos de construcción de medidas de asociación para diferentes áreas de aplicación*. SIP [20151589](#) (participante; director: [I. Batyrshin](#)), 2015.
42. *Determinación automática de autores de textos usando n-gramas sintácticos continuos y no-continuos*. SIP [20144274](#) (participante; director: [G. Sidorov](#)), MXN \$59,000, 2014.
43. *Desarrollo de un corpus de textos marcado con emociones para el español y su evaluación*. SIP [20131441](#) (participante; director: [G. Sidorov](#)), 2013.
44. *Análisis de un diccionario explicativo con un algoritmo genético para la búsqueda de un conjunto definidor*. SIP [20120418](#) (participante; director: [G. Sidorov](#)), 2012.
45. *Web Information Quality Evaluation Initiative (WIQ-EI), 7th FWP (Seventh Framework Programme) of European Union, project 269180* (participante): Bauhaus-Universitaet Weimar, Germany; University of the Aegean-Research Unit, Greece; Universidad Politecnica de Valencia, Spain. 2011–2015 (4 years), EUR 287,700.
46. *Diálogo en lenguaje natural con un robot móvil*. Mexico City Government, ICYT PICCO10-120 (participante; director: [G. Sidorov](#)), 2011, MXN \$273,142.
47. *Generación automática de resúmenes de textos cortos*. SIP [20111146](#) (participante; director: [G. Sidorov](#)), 2011.
48. *Extracción automática de patrones sintácticos*. SIP [20100668](#) (participante; director: [G. Sidorov](#)), 2010.
49. *Desarrollo de gramáticas formales para reconocimiento de texto y voz*. SIP [20090772](#) (participante; director: [G. Sidorov](#)), 2009.
50. *Representación estructural de datos visuales y búsqueda inteligente en diccionarios de idiomas con escritura ideográfica*. SIP [20080787](#) (participante; director: [G. Sidorov](#)), 2008.

51. *Métodos de aprendizaje automático para detección de estructura morfé mica de palabras en español*. SIP 20071579 (participante; director: [G. Sidorov](#)), 2007.
52. *Métodos de aprendizaje automático para detección de estructura morfé mica de palabras en español*. SIP 20060735 (participante; director: [G. Sidorov](#)), 2006.
53. *Desarrollo del sistema para alineación semiautomática de textos paralelos español-inglés y su aplicación para creación de un corpus paralelo*. SIP 20050459 (participante; director: [G. Sidorov](#)), 2005.
54. *Formulacion y evaluacion de modelos para resolver preguntas a partir de textos en español empleando informacion lingüística a varios niveles*. CONACYT 43990 (participante; director: [Manuel Montes y Gómez](#)), 2004–2007 (3 años).
55. *Precision-controlled retrieval of qualitative information*. Gobierno de México: CONACYT 43377 (participante; director: [Adolfo Guzmán Arenas](#)), 2004–2007 (3 años).
56. *Método mejorado de desambiguación de sentidos de palabras basado en el diccionario de colocaciones y en el reagrupamiento automático de sentidos de palabras en el diccionario explicativo*. SIP 20031322 (participante; director: [G. Sidorov](#)), 2003.
57. *Evaluación de la representación de palabras y colocaciones españolas en las máquinas de búsqueda de Internet para compilar diccionarios combinatorios*. SIP 20031719 (participante; director: I.A. Bolshakov), 2003.
58. *Construcción de diccionarios orientados al dominio a base de combinaciones de palabras clave*. SIP 20031731 (participante; director: M. Alexandrov), 2003.
59. *Diccionarios dinámicos orientados al dominio como una herramienta para medición y presentación de tendencias de desarrollo de disciplinas científicas y tecnológicas y interacciones entre ellos*. CONACYT 39011-A (participante; director: M.A. Alexandrov), MXN \$203,659; 2002–2005 (3 años).
60. *Construcción automática de la base del sistema léxico del español a través del diccionario explicativo y su aplicación a las tareas de recuperación de información*. CONACYT 38435-A (participante; director: [G. Sidorov](#)), MXN \$641,080; 2002–2005 (3 años).
61. *Un diccionario de colocaciones para el español con enriquecimiento con la inferencia lógica*. CGPI-IPN 20010767 (parte del Programa 18.04) (participante; director: I.A. Bolshakov), 2001.
62. *Sistema de resolución de ambigüedades sintácticas para el español, basado en un diccionario de colocaciones*. CGPI-IPN 20010769 (parte del Programa 18.04) (participante; director: [G. Sidorov](#)), 2001.
63. *Compilación automática del diccionario de las primitivas semánticas a través de extracción de los diccionarios bilingües y explicativos de español y su aplicación para*

- la resolución de ambigüedad*. CGPI-IPN (participante; director: **G. Sidorov**), MXN \$25,000; 2000.
64. *La extracción de la información ecológica de datos textuales y datos de observación por medio de los métodos de procesamiento de textos y métodos de ecuaciones diferenciales parciales (las aplicaciones prácticas en México y en Moscú)*. **CONACYT** 0402-00 y Gobierno de la Ciudad de Moscú, Rusia (participante; director: M.A. Alexandrov), USD \$10,000 + USD \$10,000.
65. *La extracción automática de información semántica de los diccionarios bilingües y explicativos de español*. **CONACYT** I-31989A (participante; director: **G. Sidorov**), MXN \$70,000; 1999–2000 (1 año).
66. *Sistema inteligente para la clasificación de documentos basado en un diccionario de español con una jerarquía ponderada de temas*. CGPI-IPN 990078 (participante; director: **G. Sidorov**), MXN \$20,000; 1999.
67. *Creación de dos libros educativos de la serie Lingüística Aplicada con énfasis a español*. CGPI-IPN 990197 (participante; director: I.A. Bolshakov), MXN \$23,000; 1999.
68. *Determinación de fuentes contaminantes locales y de área mediante técnicas de modelación matemática*. CGPI-IPN 990080 y Instituto Mexicano de Petróleo (participante; director: M.A. Alexandrov), MXN \$15,000 + MXN \$25,000; 1999.
69. *Desarrollo de un segmentador temático de textos basado en estadística y enlaces tesauricos entre términos*. CGPI-IPN 990079 (participante; director: I.A. Bolshakov), MXN \$18,000; 1999.
70. *Constructor de diccionarios orientados al dominio para la clasificación y selección de textos, y su explotación de prueba en el dominio de la política y la macroeconomía*. DEPI-IPN 980773 (participante; director: M.A. Alexandrov), 1998.
71. *La tecnología de la clasificación semántica automática y la compilación de diccionarios orientados al dominio*. DEPI-IPN 980771 (participante; director: G. Kostytchev), 1998.
72. *Analizador sintáctico para lenguaje español, dirigido por el diccionario de patrones de manejo sintáctico*. Gobierno de México: **CONACYT** 26424-A (participante; director: I.A. Bolshakov), MXN \$277,000; 1998–2000.
73. *Compilación de la parte básica del tesoro multirrelacional y multijerárquico del diccionario general*. DEPI-IPN 970314 (participante; director: I.A. Bolshakov), 1997.
74. *Compile un diccionario de patrones de manejo sintáctico para el español*. DEPI-IPN 970313 (participante; director: I.A. Bolshakov), 1997.

**Nota:** esta lista está incompleta.



## Proyectos aplicados



75. *Sistema inteligente para la recuperación de información de una biblioteca digital de proyectos de investigación*. Por encargo del CIC-IPN (responsable), 2000–2001, MXN \$70,000.
76. *Diseño y construcción de un sistema inteligente de recuperación de textos políticos de la base de datos documental del Senado de la República Mexicana*. Por encargo del **Senado** de la República Mexicana (responsable), 1999–2000, MXN \$300,000.

## Herramientas desarrolladas y derechos de autor

1. *Sistema de interacción con un robot móvil usando tecnología de voz*. Registro de derechos de autor 03-2013-031412165400-01, a nombre de Instituto Politécnico Nacional, autores: Grettel Barceló Alonso, Eduardo Antonio Cendejas Castro, [Alexander Gelbukh](#), Obdulia Pichardo Lagunas, Juan Pablo Francisco Posadas Durán, [Grigori Sidorov](#), 2013.
2. *Generador de resúmenes*. Registro de derechos de autor 03-2009-101610474900-01, a nombre de [Yulia Ledeneva](#) y [Alexander Gelbukh](#), 2009.
3. *AGME*: Programa de análisis y generación morfológica para el español. Registro de derechos de autor 03-2006-100911021300-01, a nombre de Francisco Antonio Castillo Velázquez, Liliana Chanona Hernández, [Alexander Gelbukh](#), [Grigori Sidorov](#), 2006.
4. *Classifier*, prototipo de apoyo didáctico, 1999.
5. *Parser*, prototipo de apoyo didáctico, 1999.
6. Un paquete de cómputo administrativo, por encargo del Abogado General del IPN, 1999.

# Docencia y divulgación

## Tesis dirigidas

Muchos de mis estudiantes han recibido premios y distinciones, véase [www.gelbukh.com / awards-students](http://www.gelbukh.com/awards-students). He dirigido o dirijo alumnos de  en las universidades de .

## Doctorado




Casi todos mis graduados de Doctorado residentes en México son miembros del **SNI**, excepto los más recientes y los que trabajan en una universidad privada que no tiene convenio con el SNI.

1. [Sandeep Kumar Dash](#) (India), Doctorado, [National Institute of Technology Mizoram](#), India. *Spatial Information Extraction from Text Using Image*. 2021-06-04. Codirector, junto con [Partha Pakray](#), director: [Ranjita Das](#).

Actualmente: Assistant Professor, [National Institute of Technology Mizoram](#), India (2021).

2. [Rohini Basak](#) (India), Doctorado, [Jadavpur University](#), India. *A Study on Recognizing Textual Entailment using Different Approaches*. 2020-07-20. Junto con [Sudip Kumar Naskar](#).

Actualmente: Assistant Professor, [Jadavpur University](#), India (2020).

3.    [Navonil Majumder](#) (India), Doctorado, [CIC-IPN](#). *Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations*. 2020-07-03. Junto con [Soujanya Poria](#). **Premio por mejor desempeño académico IPN 2018–2019; mención honorífica; Presea Lázaro Cárdenas 2020; mejor tesis de Doctorado (1° lugar)** en el concurso nacional de tesis sobre Inteligencia Artificial en 2020; **mejor tesis de Doctorado (1° lugar)** en el concurso de tesis del IPN en 2020.

Presea Lázaro Cárdenas se otorga al mejor estudiante del IPN en su área (postgrado en Ingeniería y Ciencias Físico-Matemáticas en este caso), y es entregada personalmente por el Presidente de la República; Navonil es una de las muy pocas personas quien recibió esta Presea dos veces (antes por su Maestría). El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial



(SMIA). El premio por mejor tesis del IPN fue acompañado por la entrega de 65,000 pesos (más de 3,000 dólares) al alumno y sus asesores.

Actualmente: Estudiante de Postdoctorado en el [DeCLaRe Lab](#), [Singapore University of Technology and Design](#), Singapur.

4. ★ Carolina Fócil Arias, Doctorado, CIC-IPN. *Análisis de historias clínicas basado en similitud textual*. 2019-01-17. Junto con [Grigori Sidorov](#); **mención honorífica**.

5. ★ Miguel Ángel Sánchez Pérez, Doctorado, CIC-IPN. *Plagiarism Detection Through Paraphrase Recognition*. 2018-07-03. Junto con [Grigori Sidorov](#); **mención honorífica**.

Actualmente: Employee at Oracle, Guadalajara, Mexico (2018).

6. ★ Francisco Ortigoza García, Doctorado, [Universidad de Sonora](#), México. *A software-based graphical method for the visual recognition of patterns in literary analysis: Tolkien and Herbert analyzed*. 2017-11-13. Codirector. Junto con Constantino Martínez Fabián; **mención honorífica**.

Actualmente: Faculty at IPN (2018).

7. ★ Fernando Monroy Tenorio, Doctorado, CIC-IPN. *Medidas de asociación en escalas bipolares para la minería de opinión en redes sociales*. 2017-06-27. Junto con Ildar Batyrshin; **mención honorífica**.

Actualmente: CEO & Director de tecnología en [COINTIC](#) (2017).

8. ★ Rodrigo Gabino Ramírez Moreno, Doctorado, CIC-IPN. *Music generation with formal grammars of multiple instruments and a conductor* (en su diploma: *Generación de música con gramáticas formales de instrumentos múltiples y un director de orquesta*). 2016-08-05; **mención honorífica**.

Actualmente: Director General, Atomo Soluciones (2016).


9. ★★☆☆ Sergio Gonzalo Jiménez Vargas (Colombia), Doctorado, [Universidad Nacional de Colombia](#), sede Bogotá. *Text Comparison Using Soft Cardinality*. 2015-08-28. Codirector: [Fabio A. González O.](#) **Mejor presentación** en el 2<sup>nd</sup> Socialization Symposium of Current Research; **best paper** award (1<sup>st</sup> place) at [MICAI-2011](#); **Microsoft Research Latin America Internship 2012**; **mención laureada**.

En el 2<sup>nd</sup> Socialization Symposium of Current Research, Bogotá, Colombia, 24 de mayo de 2010, se presentaron 23 trabajos. The Mexican International Conference on Artificial Intelligence, MICAI-2011, received 348 submissions from 40 countries. [Microsoft Research Latin America Internship](#) includes three months of work at Microsoft Research, with salary paid. Only seven Microsoft Research Latin America Internships are awarded each year. La mención laureada es la máxima mención que otorga esta universidad, más alta que la mención meritoria. Es otorgada, tras solicitud unánime del jurado, por el Consejo Académico de la Universidad a aproximadamente 1% de los egresados.

Actualmente: Researcher at the Instituto Caro y Cuervo, Colombia (2018).


10. Miguel Ángel Ríos Gaona, Doctorado, [U. Wolverhampton](#), Inglaterra. *Methods for Measuring Semantic Similarity of Texts*. 2015-01-20. Codirector. Director: [Ruslan Mitkov](#).

Actualmente: Postdoctoral fellow, Institute for Logic, Language and Computation, University of Amsterdam, The Netherlands (2018).

11.  [Alisa Zhila](#) (Rusia). Doctorado, CIC-IPN. *Open information extraction using constraints over part-of-speech sequences*; 2014-12-11. **Microsoft Research Latin America Fellowship** 2012–2013; **Microsoft Research Internship** 2012; **Oracle Internship** 2014; **Yahoo! Internship** 2014; **Distinguished Member of the Mexican Society for Artificial Intelligence (SMIA)**; **mención honorífica**.

[Microsoft Research Latin America Fellowship](#), awarded for two years, includes a very large monetary prize, 100% paid tuition and university fees, plus a Microsoft Research Latin America Internship, which is three months of work at Microsoft Research with full salary paid. According to Microsoft, [the fellows](#) “represent the best and the brightest from Latin America.” Only two Microsoft Research Latin America Fellowships are awarded each year. Alisa is the first winner of this award from Central America.

Actualmente: Lead Data Scientist, Target Corp., EE. UU. Antes: IBM (Littleton, MA, EE. UU.), [IBM Watson](#) division, which develops cognitive technology, including Question Answering technology (2016).

12.  [Francisco Viveros Jiménez](#), CIC-IPN. *Word sense disambiguation through associative dictionaries*; 2014-08-04. Junto con [Grigori Sidorov](#). **Premio por mejor desempeño académico** CIC-IPN, 2012; **Microsoft Research Internship** 2014; **mención honorífica**; **mejor tesis de Doctorado** (1° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2014.

Microsoft Research Internship includes three months of work at Microsoft Research in Redmond, with salary paid; it is awarded to 7 best PhD students in Latin America. El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).




Actualmente: Intern at Microsoft Research, Redmond (2014).

13.  [Partha Pakray](#) (India). Doctorado, Jadavpur University, India. *Answer Validation through Textual Entailment*; 2013-12-06. Junto con [Sivaji Bandyopadhyay](#). **Xerox Research Internship** 2012; **ERCIM Postdoc fellow**.

Xerox Research Internship includes six months of work at Xerox Research, with salary paid. ERCIM Postdoc fellowship includes scholarship for postdoctoral studies in Europe. The system developed in this thesis showed the best results at [2011](#) (system *jucs1106enen*), [2012](#) (system *jucs12013enen*), and [2013](#) (system *jucs1302enen*)



international competitions QA4MRE (Question Answering for Machine Reading Evaluation) at [CLEF](#) out of 25, 21, and 19 participating systems, respectively.

Actualmente: Assistant Professor, National Institute of Technology Silchar, India (2019). Antes: Head of the Department; Assistant Professor; Principal Investigator (PI); International Co-operation Officer. Department of Computer Science & Engineering, National Institute of Technology Mizoram (NIT Mizoram), India (2018).

14.    Sabino Miranda Jiménez. Doctorado, CIC-IPN. *Modelo para la generación automática de resúmenes abstractivos basado en grafos conceptuales*; 2013-08-01, **mención honorífica; mejor tesis de Doctorado** (3° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2013. Junto con [Grigori Sidorov](#).

El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).





Actualmente: Miembro del SNI nivel 1; investigador, [Infotec](#), Aguascalientes.

15.   Alfredo López Monroy. Doctorado, CIC-IPN. *Recuperación de información para respuesta a preguntas en documentos legales*; 2013-01-18, **mención honorífica; mejor tesis de Doctorado** (2° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2013. Junto con [Hiram Calvo Castro](#).

El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).

16. Horacio Alberto García Salas. Doctorado, CIC-IPN. *Modelo generativo de composición melódica con expresividad*; 2012-05-28. Junto con [Hiram Calvo Castro](#).

Actualmente: Profesor, UAEM (2012).

17.     Olga Kolesnikova (Rusia). Doctorado, CIC-IPN. *Automatic extraction of lexical functions*; 2011-06-27, **mención honorífica; best paper award** (1<sup>st</sup> place) at [MICAI-2010](#); **mejor tesis de Doctorado** (1° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2011.

The Mexican International Conference on Artificial Intelligence, MICAI-2010, received over 300 submissions from 34 countries. El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).

Actualmente: Miembro del **SNI nivel 1**, Profesora, ESCOM-IPN (2012).

18. Sonia Del Carmen Ordoñez Salinas (Colombia). Doctorado, [Universidad Nacional de Colombia](#), sede Bogotá. *Transformación automática de texto a grafos conceptuales*; 2011-03-07.

Actualmente: Profesora, [Universidad Distrital Francisco José de Caldas](#), Bogotá, Colombia (2011).

19. 🌐🇺🇸🇺🇸 Grettel Barceló Alonso (Cuba), Doctorado, CIC-IPN. *Desambiguación de los sentidos de las palabras en español usando textos paralelos*. Junto con Grigori Sidorov; 2010-06-25, **mención honorífica; mejor tesis** de Doctorado (2° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2010.

El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial (**SMIA**).

Actualmente: Miembro del **SNI nivel C** desde 2012, profesora del ITESM.

20. 🌐🇺🇸 Sulema Torres Ramos, Doctorado, CIC-IPN. *Optimización global de coherencia en la desambiguación del sentido de las palabras*; 2010-01-20, **mención honorífica**.

Actualmente: Miembro del **SNI nivel C**, profesora de la Universidad de Guadalajara (2015).

21. 🇵🇪🇺🇸 Javier Leandro Tejada Cárcamo (Perú), Doctorado, CIC-IPN. *Construcción automática de un modelo de espacio de palabras mediante relaciones sintagmáticas y paradigmáticas*. Junto con Hiram Calvo Castro; 2009-08-19, **mención honorífica**.

Actualmente: Profesor de la Universidad Católica San Pablo, Arequipa, Perú y empresario en producción de software (2010).

22. 🌐🇷🇺🇺🇸🇺🇸🇺🇸 Yulia Ledeneva (Rusia), Doctorado, CIC-IPN. *Automatic language-independent detection of multiword descriptions for text summarization*; 2008-11-12, **mención honorífica; mejor artículo** (2° lugar) de MICAI 2008; **Presea Lázaro Cárdenas 2009; mejor tesis de Doctorado** (3° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2009.

MICAI 2008 recibió 363 artículos de 1032 autores de 43 países. El premio fue otorgado dentro de sus estudios de doctorado. El artículo reporta los resultados de su tesis.

Presea Lázaro Cárdenas se otorga al mejor estudiante del IPN en su área (postgrado en Ingeniería y Ciencias Físico-Matemáticas en este caso), y es entregada personalmente por el Presidente de la República.

El **concurso nacional** de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial (**SMIA**).

Actualmente: Miembro del **SNI nivel C** desde 2010, Profesora de la Universidad Autónoma de Estado de México (2009).

23. 🇺🇸🇺🇸 Steve Legrand (Australia / Finlandia), Doctorado, University of Jyväskylä, Finlandia. *Use of Background Real-World Knowledge in Ontologies for Word Sense Disambiguation in the Semantic Web*. Junto con Prof. Pasi Tyrväinen; 2007-12-17; **best poster** (2 place) at MICAI 2007.

MICAI 2007 recibió 485 artículos de 1014 autores de 43 países. El premio fue otorgado dentro de sus estudios de doctorado. El artículo reporta los resultados de su tesis.

Actualmente: Profesor de la Universidad de Colima (2007), profesor de la University of Jyväskylä (2008).

24. 🌐 José Antonio Zárate Marceño, Doctorado, CENIDET, Cuernavaca. *Aplicación de ontologías en la construcción de una base de conocimiento para una interfaz en español hacia bases de datos*. Codirector; director: Rodolfo Pazos Rangel; 2007-12-11.

Actualmente: Miembro del **SNI nivel C** desde 2008, Profesor del **CENIDET** (2007), profesor del Tecnológico de San Luis Potosí (2008).

25. 🌟 Carlos Mario Zapata Jaramillo (Colombia), Doctorado, Universidad Nacional de Colombia, sede Medellín. *Definición de un esquema preconceptual para la obtención automática de esquemas conceptuales de UML*. Codirector; director: Fernando Arango Isaza; 2007-07-12; **mención laureada**.

La mención laureada es la máxima mención que otorga esta universidad, más alta que la mención meritoria. Es otorgada, tras solicitud unánime del jurado, por el Consejo Académico de la Universidad a aproximadamente 1% de los egresados.

Actualmente: Profesor de la **Universidad Nacional de Colombia, sede Medellín** (2008).

26. 🌐 Alma Delia Cuevas Rasgado, Doctorado, CIC-IPN. *Unión de ontologías usando propiedades semánticas*. Codirector; director: Adolfo Guzmán Arenas; 2006-12-19.

Actualmente: Miembro del **SNI nivel C** desde 2009, Profesora, ESCOM-IPN (2009).

27. 🙋 Yoel Ledo Mezquita (Cuba / España), Doctorado, CIC-IPN. *Recuperación de información con resolución de ambigüedad de sentidos de palabras para el español*. Codirector; director: Grigori Sidorov; 2006-06-23. **Presea Lázaro Cárdenas 2003**.

Presea Lázaro Cárdenas se otorga al mejor estudiante del IPN en su área (postgrado en Ingeniería y Ciencias Físico-Matemáticas en este caso), y es entregada personalmente por el Presidente de la República.

Actualmente: Profesor y Director de Sistemas de la **Universidad de las Américas** (2008).

28. 🌐🙋🌟🌟🌟🌟🎓 Hiram Calvo Castro, Doctorado, CIC-IPN. *Determinación automática de roles semánticos usando preferencias de selección sobre corpus muy grandes*. 2006-06-19, **mención honorífica; premio por mejor presentación en CICLing 2005, premio por mejor tesis de Doctorado del IPN 2006; premio por mejor promedio IPN 2006; Presea Lázaro Cárdenas 2006**.

Presea Lázaro Cárdenas se otorga al mejor estudiante del IPN en su área (postgrado en Ingeniería y Ciencias Físico-Matemáticas en este caso), y es entregada personalmente por el Presidente de la República. Premio por mejor tesis se otorga a la mejor tesis de Doctorado del IPN (IPN tiene 175 mil alumnos).

Actualmente: Miembro del **SNI nivel II** desde 2019 (en el SNI desde 2007), Profesor del CIC-IPN, tras una **estancia posdoctoral** en Japón (2011).

29. 🌐 Juan Javier González Barbosa, Doctorado, CENIDET, Cuernavaca. *Traductor de lenguaje natural español a SQL para un sistema de consultas a bases de datos*. Codirector; director: Rodolfo Pazos Rangel; 2005-12.  
Actualmente: Miembro del **SNI nivel I** desde 2006, Profesor del Instituto Tecnológico de Ciudad Madero, Tampico (2006).
30. 🎓 Kwangcheol Shin (Corea del Sur), Doctorado, Universidad Chung-Ang, Corea. *개선된 구조적 용어 가중치 기법에 기반한 문헌 클러스터링과 정보 검색 (Document Clustering and Information Retrieval Based on Enhanced Structure-based Term Weighting)*. Junto con San Yong Han; 2004-05-25.  
Actualmente: Research Professor at **KAIST**, Korea; autor de 23 publicaciones y 5 patentes (2012), tras una estancia postdoctoral en la U. de Minnesota.
31. 🌐 Raúl Morales Carrasco, Doctorado, CIC-IPN. *Resolución automática de anáfora indirecta en el español*. Codirector: Ruslan Mitkov; 2004-01-27.  
Actualmente: Miembro del **SNI nivel I** desde 2005, profesor titular y jefe de laboratorio, Instituto Tecnológico de Puebla (2007).
32. 🌟🎓 Manuel Montes y Gómez, Doctorado, CIC-IPN. *Minería de texto empleando la semejanza entre estructuras semánticas*. Codirector: Aurelio López López; 2002-02-26; **mención honorífica**.  
Actualmente: Miembro del **SNI nivel II** (en el SNI desde 2001), Miembro de la Academia Mexicana de Ciencias, Investigador Titular B del INAOE (2008), tras una estancia postdoctoral en la Universidad Politécnica de Valencia, España; autor de más de 180 publicaciones (2012).
33. 🌐 Sofía Galicia Haro, Doctorado, CIC-IPN. *Analizador sintáctico avanzado dirigido por el diccionario de patrones de manejo sintáctico*. Codirector: Igor Bolshakov; 2000-11-29.  
Actualmente: Miembro del **SNI nivel I** desde 2001, profesora de la UNAM (2019).

## Maestría

34. 🌟🎓 Brian Daniel Herrera González, Maestría, CIC-IPN. *Automatic Generation of Fiction Stories Using Human-Like Writing Style*. 2021-08-06, **cum laude**. Junto con Hiram Calvo.  
Actualmente: Estudiante de Doctorado en el CIC-IPN, bajo mi codirección (2021).
35. 🌟🎓 Sergio Arturo Damian Sandoval, Maestría, CIC-IPN. *Fake News Spreaders Profiling and Fake News Detection in Social Media*. 2021-07-01, **cum laude**. Junto con Hiram Calvo.



36.   Abu Bakar Siddiqur Rahman (Bangladesh), Maestría, CIC-IPN. *Deep Learning Based Summarization of Multimodal Documents*. 2021-02-12, **cum laude**. Junto con [Grigori Sidorov](#).  
Actualmente: Estudiante del Doctorado en la University of Nebraska Omaha (2021).
37.   Sabur Butt (Pakistán), Maestría, CIC-IPN. *Question Answering in Open Domain*. 2021-01-25, **cum laude**. Junto con [Grigori Sidorov](#).  
Actualmente: Estudiante de Doctorado en el CIC-IPN, bajo mi codirección (2021).
38.  Muhammad Hammad Fahim Siddiqui (Pakistán), CIC-IPN. *Social Media Emotion Detection*. 2020-07-20.  
Actualmente: Estudiante de Doctorado en la University of Ottawa, bajo mi codirección (2020).
39.   Jason Efraín Angel Gil (Colombia), CIC-IPN. *Unrestricted Bridging Anaphora Resolution using Lexical Information*. 2019-06-28, **mención honorífica**. Junto con [Roberto Navigli](#).  
Actualmente: Estudiante de Doctorado en el CIC-IPN, bajo mi dirección (2019).
40.   Daniel Alejandro Pérez Álvarez (Cuba), CIC-IPN. *Atribución de autoría en la música mediante el uso de aprendizaje automático*. 2019-06-28, **mención honorífica**.  
Actualmente: Estudiante de Doctorado en el CIC-IPN, bajo mi dirección (2019).
41. Arturo Hernández Miranda, Maestría, CIC-IPN. *Funciones léxicas en español utilizando embeddings*. 2019-01-17. Junto con [Olga Kolesnikova](#).
42.   Christian Efraín Maldonado Sifuentes, Maestría, CIC-IPN. *Automatic Detection of Linguistic Features of Influential News Tweets*. 2018-07-05, **mención honorífica**. Junto con [Grigori Sidorov](#).  
Actualmente: Estudiante de Doctorado en el CIC-IPN (2019).
43.  Francisco Javier García López, Maestría, CIC-IPN. *Analysis of Associations between Financial Time Series and Social Network Activity*. 2018-01-11, **mención honorífica**. Junto con [Ildar Batyrshin](#).
44.  Roddy Fuentes Alba (Cuba), Maestría, CIC-IPN. *Author Profiling using Deep Learning*. 2018-01-09, **mención honorífica**.
45.  Sergio Andrés Mancera Nomesque (Colombia), Maestría, CIC-IPN. *Automatic Extraction of Regional Words from Social Networks*. 2017-12-14, **mención honorífica**.
46.  Yarik Menchaca Resendiz, Maestría, CIC-IPN. *Stress and Relaxation Strength Detection of Spanish Tweets*. 2017-12-05, **mención honorífica**.

47. 🌟 Steffy Mónica Robles Ruíz, Maestría, CIC-IPN. *Reconocimiento automático de glifos mayas*. 2017-07-05, **mención honorífica**. Junto con [Hiram Calvo](#).
48. 🌟🌟🌟🌟🎓 Navonil Majumder (India), Maestría, CIC-IPN. *Multimodal Sentiment Analysis in Social Media using Deep Learning with Convolutional Neural Networks*. 2017-07-04. **Premio por mejor desempeño académico IPN**, 2016–2017; **mención honorífica**; **Presea Lázaro Cárdenas 2017**; **mejor tesis de Maestría** (3° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2017.

Presea Lázaro Cárdenas se otorga al mejor estudiante del IPN en su área (postgrado en Ingeniería y Ciencias Físico-Matemáticas en este caso), y es entregada personalmente por el Presidente de la República. El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial (SMIA).

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por el CIC-IPN, bajo mi dirección. Estudiante de Postdoctorado en el [DeCLaRe Lab](#), [Singapore University of Technology and Design](#), Singapur.

49. 🌟🎓 Jesús Alexander Alvarado Gutiérrez, Maestría, CIC-IPN. *Knowledge-Rich Techniques for Anaphora Resolution*. 2016-12-19, **mención honorífica**. Junto con [Olga Kolesnikova](#).
50. 🌟 Pabel Carrillo Mendoza, Maestría, CIC-IPN. *Multi-document Summarization using Intra-document and Inter-document Redundancy*. 2016-12-19, **mención honorífica**. Junto con [Hiram Calvo](#).
51. Hugo Librado Jacobo, Maestría, CIC-IPN. *Análisis automático de opiniones de productos en redes sociales*. 2016-01-28. Junto con [Grigori Sidorov](#).
52. 🌟🎓 Francisco Gabriel Sandoval Flores, Maestría, CIC-IPN. *Minería de textos para búsqueda de fundamentos jurídicos en sentencias*. 2016-01-18, **mención honorífica**. Junto con [Hiram Calvo](#).

Actualmente: Estudiante de Doctorado en el CIC-IPN, bajo mi dirección (2017).

53. Cristina Alicia Díaz Jiménez, Maestría, CIC-IPN. *Coreference resolution using methods of word sense disambiguation*; 2014-12-18.
54. 🌟 Iván Omar Cruz García, Maestría, CIC-IPN. *Polarity summarization with opinion mining*; 2014-12-12, **mención honorífica**. Junto con [Grigori Sidorov](#).

Actualmente: Head of AI at [Yalo](#), company that produces intelligent conversational agents (2017).


55. 🌟🌟🌟🌟🌟🏆🎓 Miguel Ángel Sánchez Pérez, Maestría, CIC-IPN. *Detección automática de plagio a través de formación de pasajes*; 2014-06-09; **mención honorífica**; **mejor tesis** de Maestría en Ciencias de la Computación del 2014 del CIC-IPN; **mejor desempeño académico** de Maestría en Ciencias de la Computación del CIC-IPN 2013–2014; **mejor desempeño académico** del IPN de su programa 2014; **mejor**



**tesis** de Maestría (2° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2014. Junto con [Grigori Sidorov](#).


The system developed in this thesis showed the **best result** in the [Text Alignment task](#) (system *sanchezperez14*) at the 2014 international competition [PAN - Uncovering Plagiarism, Authorship, and Social Software Misuse](#). El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por el CIC-IPN, bajo mi dirección. Trabaja en Oracle (2020).

56.  Rodrigo Gabino Ramírez Moreno, Maestría, CIC-IPN. [Genración de musica con gramaticas formales](#); 2011-12-13, **mención honorífica; mejor tesis** de Maestría (3<sup>r</sup> lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2012.

El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por el CIC-IPN; Director General, Atomo Soluciones (2017).



57.  Miguel Ángel Ríos Gaona, Maestría, CIC-IPN. [Word Sense Disambiguation and recognizing Textual Entailment with Statistical Methods](#). Junto con [Sivaji Bandyopadhyay](#) (Jadavpur University, India); 2010-06-23, **mención honorífica; mejor tesis de Maestría** (2° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2010.

El concurso nacional de tesis sobre Inteligencia Artificial fue organizado por la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)).



Actualmente: Doctor en ciencias (graduado bajo mi dirección) por la U. Wolwerhampton, UK; Researcher, Institute for Logic, Language and Computation, University of Amsterdam, UK (2017).

58. Rigoberto Ocampo Pólito, Maestría, CIC-IPN. [Detección automática de humor en textos cortos en español](#); 2010-06-18.
59. Moisés Eduardo Lavín Villa, Maestría, CIC-IPN. [Construcción automática de diccionarios semánticos usando la similitud distribucional](#). Junto con [Grigori Sidorov](#); 2010-01-20.
60. Pedro Galicia Galicia †, Maestría, CIC-IPN. [Manipulación y recuperación dinámica de información utilizando Jakarta POI-API](#). Junto con Oscar Fabela Cano; 2009-05-14.
- Actualmente: Professor at CIC-IPN until 2014, when he passed away.
61. Ricardo Ávila Argüelles, Maestría, CIC-IPN. [Clasificación bibliotecaria automática usando identificación simple de términos con métodos lógico-combinatorios a partir de información escasa](#). Junto con [Hiram Calvo Castro](#); 2009-01-15.

Actualmente: empresario (2009).

62.   Alfredo López Monroy, Maestría, CIC-IPN. *Respuesta automática a preguntas sobre documentos legales en español*. Junto con Hiram Calvo Castro; 2008-11-21, **mención honorífica**.

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por el CIC-IPN (2009).

63.   Sergio Gonzalo Jiménez Vargas (Colombia), Maestría, [Universidad Nacional de Colombia](#), sede Bogotá. *A Knowledge-Based information extraction prototype for data-rich documents in the information technology domain*. Junto con Fabio A. González O.; 2008-11-12, **mención meritoria**.

En esta escuela, la mención meritoria se otorga en menos de 10% de casos.

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por la [UN Colombia](#); investigador del [Instituto Caro y Cuervo](#) (2017).

64. Diego Lara Reyes, Maestría, CIC-IPN. *Sistema de segmentación automática de palabras para el español*. Junto con Grigori Sidorov; 2008-06-18.




Actualmente: Ingeniero de software, banco Bancomer (2008).

65. Macario Hernández Cruz, Maestría, CIC-IPN. *Generador de los grafos conceptuales a partir del texto en español*; 2007-12-05.



Actualmente: Profesor de la ESCOM-IPN (2007).

66. Tania Lugo García, Maestría, CIC-IPN. *Aprendizaje automático de la base de datos estadística de combinaciones de palabras en español*. 2007-06-07.

Actualmente: Ingeniero de software, empresa MetLife (2007).

67.    Sulema Torres Ramos, Maestría, CIC-IPN. *Aprendizaje supervisado de colocaciones para la resolución de la ambigüedad sintáctica*; 2006-06-22, **mención honorífica**.

Actualmente: Doctora en ciencias (graduada bajo mi dirección) por el CIC-IPN (2017), miembro del **SNI** nivel C.

68.   Javier Leandro Tejada Cárcamo, Maestría, CIC-IPN. *Desambiguación de sentidos de palabras usando relaciones sintácticas como contexto local*; 2006-06-08, **mención honorífica**.

Actualmente: Doctor en ciencias (graduado bajo mi dirección) por el CIC-IPN; empresario (producción de software) y profesor de la Universidad de Arequipa, Perú (2010).

69. Gabriela Rivera Loza, Maestría, CIC-IPN. *Selección automática de las primitivas semánticas en diccionario explicativo para el español*; 2003-06-04.

70. Roberto Jurado Jiménez, Maestría, CIC-IPN. *La aplicación de métodos de la programación matemática para la identificación de fuentes simples de contaminación del aire*. Codirector; director: Mikhail Alexandrov; 2002-09-24.

Actualmente: Profesor de la ESCOM-IPN (2017).

71. Liliana Chanona Hernández, Maestría, CIC-IPN. *La compilación de un corpus representativo de contextos de palabras en español a través del Internet*; 2002-05-28.


Actualmente: Profesora de la ESIME-IPN (2019).

## Licenciatura


Todos mis graduados de Licenciatura que entraron a la Maestría, la estudiaron conmigo o con mis exalumnos.

72. Vanessa San Agustín Gutiérrez, Licenciatura, UPIITA-IPN. *Sistema de análisis lingüístico de comentarios para el apoyo del marketing boca a boca*; 2016-01-15. Junto con Miguel Alejandro Martínez Rosales.

Actualmente: Aspirante a la Maestría del CIC (bajo mi codirección) (2016).

73.  Miguel Ángel Ríos Gaona, Licenciatura, ESCOM-IPN. *Desambiguación de sentidos de palabras usando sinónimos*; 2008.

Actualmente: Maestro en ciencias (graduado bajo mi dirección) por el CIC-IPN; Doctor en ciencias (graduado bajo mi dirección) por la U. Wolverhampton, UK; Researcher, Institute for Logic, Language and Computation, University of Amsterdam, UK (2017).

74.  Valentina Muñoz Porras, Licenciatura, Universidad de Guanajuato. *Etiquetador morfosintáctico acoplable a GATE (para Procesamiento de Lenguaje Natural)*; 2005-06-05. Director; codirector: Cuauhtémoc Lemus Olalde.

Actualmente: Maestro en ciencias (graduada bajo dirección de mi exalumna) por la UNAM, ayudante de Profesor de Asignatura A, UNAM (2009).

## En proceso

75. Nasim Tohidi (Iran), AI Committee in Computer Engineering department, K.N. Toosi University of Technology, Irán. Thesis: *Syntax-Free Meaning Representation for Natural Language*. Junto con [Chitra Dadkhah](#). En proceso desde 2021-06.

76. Wei Han (Henry) (Hong Kong), Doctorado, Singapore University of Technology and Design, Singapore. Junto con [Soujanya Poria](#). En proceso desde 2021-01.

77. Iskander Akhmetov (Kazakhstan), Doctorado, Kazakh-British Technical University, Kazakhstan. Junto con [Alexandr Pak](#). En proceso desde 2020-04.

78. Olumide Ebenezer Ojo (Nigeria), Doctorado, CIC-IPN. Junto con [Hiram Calvo](#). En proceso desde 2020-01.

79. Jason Efraín Angel Gil (Colombia), Doctorado, CIC-IPN. En proceso desde 2020-01.
80. Noman Ashraf (Pakistán), Doctorado, CIC-IPN. En proceso desde 2019-08.
81. Hoàng Thắng Ta (Vietnam), Doctorado, CIC-IPN. En proceso desde 2019-08.
82. Daniel Alejandro Pérez Álvarez (Cuba), Doctorado, CIC-IPN. *Generación automática de música polifónica mediante técnicas de procesamiento de lenguaje natural y aprendizaje profundo*. Junto con [Grigori Sidorov](#). En proceso desde 2019-08.
83. Antonio Jesús Tamayo Herrera (Colombia), Doctorado, CIC-IPN. *Machine Learning Model for Multilingual and Cross-Domain Negation Scape Detection*. En proceso desde 2019-08.
84. Carlos Alberto Rodríguez Díaz (Colombia), Doctorado, CIC-IPN. Junto con [Sergio Gonzalo Jiménez Vargas](#). En proceso desde 2019-01.
85. Jesús Alexander Alvarado Gutiérrez, Doctorado, CIC-IPN. *Resolución de correferencia con aprendizaje profundo*. Junto con Olga Kolesnikova. En proceso desde 2018-08.
86. 🌟🌟🏆 Segun Taofeek Aroyehun (Nigeria), Doctorado, CIC-IPN. *A Deep-Learning Framework for Coreference Resolution*. En proceso desde 2017-08. **Best result at TRAC 2018 Shared Task on Aggression Identification; Microsoft Latin America PhD Award 2020. Google 2020 Latin America PhD Award.**
87. Francisco Gabriel Sandoval Flores, Doctorado, CIC-IPN. *Automatic Legal Case Resolution Based on Textual Description Using Deep Learning*. Junto con [Hiram Calvo](#). En proceso desde 2017-01.
88. Reyna Elia Melara Abarca. Doctorado, CIC-IPN. *Similitud léxico-semántico en corpus de textos grandes coherente*. Junto con [Soffa Galicia Haro](#) (UNAM). En proceso desde 2009-01.
89. Riyanka Manna (India), Doctorado, Jadavpur University, India, Junto con [Dipankar Das](#). En proceso desde 2017-01.
90. Claudia Jeanneth Becerra Cortés (Colombia), Doctorado, [Universidad Nacional de Colombia](#), sede Bogotá. Junto con [Fabio A. González O](#). En proceso desde 2010-08.
91. Mykola Lukashchuk (Ucrania), Maestría, CIC-IPN. En proceso desde 2020-01.
92. Sara Besharati (Irán), Maestría, CIC-IPN. En proceso desde 2020-01.
93. Seyed Habib Hosseini Saravani (Irán), Maestría, CIC-IPN. En proceso desde 2020-01.
94. Victor Manuel Palma Preciado, Maestría, CIC-IPN. *Automatic Detection of Jokes in Texts*. Junto con [Grigori Sidorov](#). En proceso desde 2019-01.
95. María Elena Ensastegui Ortega, Maestría, CIC-IPN. Junto con [Hiram Calvo](#). En proceso desde 2019-08.

96. Alexis Piña Aquino, Maestría, CIC-IPN. *Aprendizaje de actos del habla para el manejo de diálogos orientados a un fin*. Junto con [Hiram Calvo](#). En proceso desde 2018-01.

## Cursos impartidos y elaborados

*Cursos impartidos:*

**Nota:** esta lista está incompleta.

1. *Lingüística Computacional I: Introducción a Lingüística Aplicada*, 80 horas, CIC-IPN. Muchas veces desde 2014.
2. *Lingüística Computacional II: Sistemas de Aplicación Lingüística*, 80 horas, CIC-IPN. Muchas veces desde 2014.
3. *Lingüística Computacional III: Procesamiento Inteligente de Texto*, 80 horas, CIC-IPN. Muchas veces desde 2014.
4. *Lingüística Aplicada I: Introducción a Lingüística Aplicada*, 80 horas, clave 3374, CIC-IPN. Muchas veces desde enero 1998.
5. *Lingüística Aplicada II: Sistemas de Aplicación Lingüística*, 80 horas, CIC-IPN. Muchas veces desde agosto 1998.
6. *Lingüística Aplicada III: Procesamiento Inteligente de Texto*, 80 horas, CIC-IPN. Muchas veces desde enero 1999.
7. *Recuperación de información textual*, 80 horas, CIC-IPN. Muchas veces desde 2014.
8. *Tecnologías de Lenguaje Natural*, 80 horas, CIC-IPN. Muchas veces desde 2011.
9. *Tratamiento de Lenguaje Natural*, 80 horas, clave 3198, CIC-IPN. Muchas veces desde febrero 1997.
10. Seminario I de Lingüística Aplicada, 60 horas, clave 3227, CIC-IPN. Muchas veces desde enero 1998.
11. Seminario II de Lingüística Aplicada, 60 horas, CIC-IPN. Muchas veces desde enero 1998.
12. Seminario III de Lingüística Aplicada, 60 horas, clave 3227, CIC-IPN. Muchas veces desde enero 1998.
13. Tema de tesis, 60 horas, clave SC, CIC-IPN. Muchas veces desde enero 2002.
14. *Advanced Topics in Information Retrieval*, 48 horas, Universidad Chung-Ang, Corea, semestre A 2004.
15. *Advanced Topics in Computer Science: Information Retrieval*, 48 horas, Universidad Chung-Ang, Corea, semestre B 2003.
16. Seminario IV de Lingüística Aplicada, 60 horas, CIC-IPN, semestre A 1999.

17. *Autoservicio informático para lingüista*, 80 horas, Universidad Estatal «Lomonósov» de Moscú, Rusia, semestres B95/A96, B96 (40 horas).

*Cursos elaborados:*

1. *Tecnologías de Lenguaje Natural*, 80 horas, CIC-IPN, 2011.
2. *Lingüística Aplicada I: Introducción a Lingüística Aplicada*, 80 horas, CIC-IPN, 1997.
3. *Lingüística Aplicada II: Sistemas de Aplicación Lingüística*, 80 horas, CIC-IPN, 1997.
4. *Lingüística Aplicada III: Procesamiento Inteligente de Texto*, 80 horas, CIC-IPN, 1997.
5. *Autoservicio informático para lingüista*, 80 horas, Universidad Estatal «Lomonósov» de Moscú, Rusia, 1995.

## Conferencias magistrales

### Congresos internacionales de alto prestigio

1. *Trends in opinion mining and sentiment analysis: Where intelligence meets democracy*. [Keynote talk at AI2SD 2019](#), Advanced Intelligent Systems for Sustainable Development. July 8–11, 2019, Marrakech, Morocco.
2. *Inteligencia Artificial y Procesamiento del Lenguaje Natural*. [Congreso Internacional en Aplicaciones de la Inteligencia Artificial](#), November 2–3, 2018, Bogotá, Colombia. [More info](#), [press](#), [brochure](#), [another version of the brochure](#).
3. *Opinion Mining and Sentiment Analysis*. [Keynote talk at IWOBI 2018](#), IEEE International Work Conference on Bioinspired Intelligence, July 18–20, 2018, San Carlos, Costa Rica.
4. *Novel Techniques for Sentiment Analysis and Opinion Mining*. [Invited talk at CiSE 2018](#), 10<sup>th</sup> International Conference on Computational Intelligence and Software Engineering, January 5–7, 2018, Bangkok, Thailand.
5. *Opinion Mining and Sentiment Analysis with Deep Learning Techniques*. [Keynote talk at ISDA 2017](#), 17th International Conference on Intelligent Systems Design and Applications, December 14–16, 2017, South Asian University, Delhi, India; [proceedings IEEE](#).
6. *Opinion Mining, Sentiment Analysis, and Author Profiling*. [Keynote talk at MIKE 2017](#), 5th International Conference on Mining Intelligence and Knowledge Exploration, December 13–15, 2017, Institute for Development and Research in Banking Technology (IDRBT), Hyderabad, India; [proceedings Springer LNCS](#).
7. *Deep Learning Architectures for Sentiment Analysis in Textual and Video Data*. [Keynote talk at SoCPaR 2017](#), 9<sup>th</sup> International Conference on Soft Computing and Pattern Recognition, December 11–13, 2017, Marrakech, Morocco; [proceedings Springer](#).



8. *Análisis de sentimientos y opiniones en Internet y redes sociales*. Keynote talk at [TIC.EC 2017](#), 5<sup>o</sup> Congreso Ecuatoriano de tecnologías de información y comunicación (5<sup>th</sup> Ecuadorian Conference on Information and Communication Technologies), November 15–17, 2017, Universidad Técnica del Norte, Ibarra, Ecuador.
9. *Aplicaciones del aprendizaje profundo en la minería de opiniones y análisis de sentimientos (Deep Learning Applications in Opinion Mining and Sentiment Analysis)*. Keynote talk at [WOPATEC 2017](#), Workshop de Procesamiento Automatizado de Textos y Corpus (Workshop on Automatic Processing of Texts and Corpora), November 9–10, 2017, Facultad de Ingeniería, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile.
10. *Sentiment Analysis and Opinion Mining*. Keynote talk at [ICRITO 2017](#), 6<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization, September 20–22, 2017, Amity University Uttar Pradesh (AUUP), Noida, India, technically co-sponsored by IEEE Uttar Pradesh section; proceedings IEEE. Published by IEEE as: [Alexander Gelbukh](#). *Sentiment analysis and opinion mining: Keynote address*. In: Proceedings of the 6<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2017, ISBN 978-1-5090-3012-5, IEEE, 2017, pp. 41–47.
11. *Un sistema informático para el manejo de corpus lingüísticos y su aplicación para CORDIAM, el Corpus diacrónico y diatópico del español de América (A software system for linguistic corpus management and its application to CORDIAM, a Diachronic and Diatopic Corpus of American Spanish)*. Keynote talk at [CILCC 2017](#), 1<sup>er</sup> Congreso Internacional de Lingüística Computacional y de Corpus (1<sup>st</sup> International Conference on Computational and Corpus Linguistics), May 17–19, 2017, Instituto Caro y Cuervo, Bogotá, Colombia.
12. *Análisis de sentimientos de Internet y redes sociales*. Keynote talk at [WITCOM 2016: IoT & IoE](#), International Congress on Telematics & Computing, November 9–11, Unidad Profesional Interdisciplinaria de Ingeniería Campus Guanajuato - Silao, Instituto Politécnico Nacional, Silao, Guanajuato, Mexico.
13. *Sentiment analysis and text similarity measures*. Keynote talk at [MICAI 2015](#), 14<sup>th</sup> Mexican International Conference on Artificial Intelligence (proceedings Springer LNAI and IEEE CS Press), October 25 to 31, 2015, Cuernavaca, Mexico.
14. *Machine Learning and Natural Language Processing*. Keynote talk at the [International Workshop on Machine Learning and Text Analysis](#), December 15–24, 2013, South Asian University, Delhi, India.
15. *Natural Language Processing and its Applications*. Keynote talk at [ADCONS'13](#), International Conference on Advanced Computing, Networking and Security, December 15–17, 2013, Department of Computer Science and Engineering / Department



of Information Technology, National Institute of Technology Karnataka - Surathkal, Surathkal, India.

16. *Natural language processing: Perspective of CIC-IPN*. Keynote talk at ICACCI-2013, 2<sup>nd</sup> International Conference on Advances in Computing, Communications and Informatics, August 22–25, 2013, technically co-sponsored by IEEE Communications Society, Sri Jayachamarajendra College Of Engineering (SJCE), Mysore, India. (Note: on some webpages and in press, the title of this talk is misspelled as “*Natutal language processing: Perspective of CIC-IPN*”.)
17. *Natural Language Processing: Advances and Applications*. Keynote talk at the 9<sup>th</sup> Mexican International Conference ENC-2008, 6–10 October, 2008, Mexicali, Mexico; proceedings IEEE CS Press.
18. *Advances in Natural Language Processing*. Keynote talk at the 5<sup>th</sup> International Conference on Computer Science ENC-2005, Puebla, Mexico, 2005; proceedings IEEE CS Press.
19. *Natural Language Processing*. Keynote talk at HIS 2005, 5<sup>th</sup> International Conference on Hybrid Intelligent Systems, Rio de Janeiro, Brazil, November 6–9, 2005; proceedings IEEE CS Press.
20. *El procesamiento del lenguaje natural y traducción automática*. Keynote Talk at the 4<sup>o</sup> Congreso Mundial de Juventudes Científicas — 4<sup>th</sup> World Congress of Scientific Youth. Bogotá, Colombia, November 10–14, 2005. Organized by FISS.
21. *El cuento de la máquina parlante*. Keynote talk at CIC-2004, Congreso Internacional de Computación (International Conference on Computing), Mexico City, November 2004.
22. *Algunas técnicas para el procesamiento de texto basadas en diccionarios*. Keynote talk at CLEI-2004, 30<sup>a</sup> Conferencia Latinoamericana de Informática (30<sup>th</sup> Latinoamerican Conference on Informatics), Arequipa, Peru, September 2004.
23. *Computational processing of natural language: Tasks, problems and solutions*. Keynote talk at CIC-2000, Congreso Internacional de Computación (International Conference on Computing), November 15–17, 2000, Mexico.

### Otros congresos

**Nota:** esta lista está muy incompleta y ya no se actualiza debido a demasiado gran número de elementos.

24. *Applications of the Natural Language Processing*. **Keynote talk**. 7th International Conference on Electrical and Electronics Engineering Research, CIIIEE, November 10–12, 2010, Aguascalientes, Mexico.
25. *Procesamiento de Lenguaje Natural en el CIC-IPN*. **Keynote talk**. 5<sup>o</sup> Congreso Internacional “Tendencias Tecnológicas en Computación”, Mexico City, CIDETEC, October 19–23, 2009.

26. *Problems and Applications of Natural Language Processing*. Information Telecommunication Research Institute, Center for Multimedia Communication Systems Research, Chung-Ang University, Seoul, Korea, December 2, 2003.
27. *Compilación y algunas aplicaciones de diccionarios combinatorios estadísticos*. 1<sup>r</sup> Coloquio de Lingüística Computacional en la UNAM, Ciudad de México, 27 de febrero de 2003.
28. *Lenguaje Natural y Procesamiento Inteligente de Texto*. Benemérita Universidad Autónoma de Puebla, 11 de diciembre de 2002.
29. Conferencia Magistral en los eventos: 9o Congreso Internacional de Investigación en Ciencias Computacionales y 3er Simposium Intertecnológico de Computación Informática, 23–25 de octubre de 2002, Instituto Tecnológico de Puebla, Puebla, Mexico.
30. *Cómo elaborar una propuesta exitosa de investigación: una experiencia propia*. Seminario de investigación científica y tecnológica, ESIME-IPN, 20 de agosto de 2002.
31. *Lenguaje Natural y Procesamiento Inteligente de Texto*. Instituto de Estudios Superiores de Tamaulipas, Altamira, Tamaulipas, 11 de abril de 2002.
32. *Minería de texto*. 2º Congreso de Ingeniería en Sistemas Computacionales 2001, 24–26 de octubre de 2001, Tuxtla Gutiérrez, Chiapas.
33. Participación en la mesa pánel *Recursos computacionales para la educación*. Segundo Congreso de Ciencias de la Computación, Universidad Autónoma de Yucatán, 11 de octubre de 2001.
34. *Tareas y perspectivas de procesamiento de lenguaje natural*. Segundo Congreso de Ciencias de la Computación, Universidad Autónoma de Yucatán, 11 de octubre de 2001.
35. *Procesamiento inteligente de textos y computación lingüística*. Centro de estudios científicos y tecnológicos «Juan de Dios Bátiz Paredes», IPN, México, 17 de mayo de 2001.
36. *Tareas y perspectivas de Procesamiento de Lenguaje Natural (Procesamiento Inteligente de Texto)*. Semana cultural 2001, 1–2 de mayo de 2001, Universidad Autónoma de Guerrero, Chilpancingo, Gro, Mexico, en el marco del Programa de la ACM para México y Centroamérica.
37. *Inteligencia Artificial*. Semana cultural 2001, 1–2 de mayo de 2001, Universidad Autónoma de Guerrero, Chilpancingo, Gro, Mexico.
38. *Tareas y perspectivas de Procesamiento de Lenguaje Natural*. 2do. Congreso Internacional de Ingeniería en Sistemas Computacionales e Informática, 26 al 28 de marzo del 2001, Cd. Lázaro Cárdenas, Mich. **Plática invitada**.
39. *La resolución automática de ambigüedades en el texto (Procesamiento Inteligente de Texto)*. 2do. Congreso Internacional de Ingeniería en Sistemas Computacionales e

- Informática, 26 al 28 de marzo del 2001, Cd. Lázaro Cárdenas, Mich. **Plática invitada**, en el marco del Programa de la **ACM** para México y Centroamérica.
40. *Lenguaje Natural y Procesamiento Inteligente de Texto (Procesamiento Inteligente de Texto)*, 1<sup>er</sup> Congreso de Ingeniería en Sistemas Computacionales, Tuxtla Gutiérrez, Chiapas, 25–27 de octubre del 2000. **Plática invitada**, en el marco del Programa de la **ACM** para México y Centroamérica.
  41. *Procesamiento de Lenguaje Natural*, Simposium de Inteligencia Artificial y Realidad Virtual, ITESM – Instituto Tecnológico y de Estudios Superiores de Monterrey, campus Estado de México, 25 de octubre del 2000. **Plática invitada**.
  42. *Descripción del contenido del texto a través de una jerarquía de conceptos*, Seminario de Investigación del CIC-IPN, México D.F., 31 de marzo de 2000.
  43. *Tecnología Clasitex del procesamiento inteligente de texto*. Conferencias **múltiples** para los estudiantes visitantes, CIC-IPN, México D.F., 1998–2000.
  44. *Procesamiento inteligente de texto*, en el marco del Programa de la **ACM** para México y Centroamérica. Universidad del Norte de Guanajuato, Gto, México; 11 de agosto de 2000;
  45. *Avances y perspectivas de procesamiento de lenguaje natural* ([editorial.cic.ipn.mx/acm/cgelbuk.htm](http://editorial.cic.ipn.mx/acm/cgelbuk.htm)), en el marco del Programa de la **ACM** para México y Centroamérica. Instituto Tecnológico de Tlalnepantla, Estado de México, México, 2000.
  46. *Avances y perspectivas de procesamiento automático de lenguaje natural*, en el marco del Programa de la **ACM** para México y Centroamérica. Conferencias **magistrales**. Instituto Tecnológico de Tuxtla Gutiérrez, Chiapas, México, 1 de junio de 2000; Instituto de Estudios Superiores de Chiapas, Tuxtla Gutiérrez, Chiapas, México, 2 de junio de 2000; Universidad Valle del Grijalva, Tuxtla Gutiérrez, Chiapas, México, 2 de junio de 2000.
  47. *Hierarchical Dictionaries in Text Mining*. CIC MIDAT-99, Primer Taller de Minería de Datos, July 5–7, 1999, Mexico City.
  48. Participación en una Mesa Redonda *Lenguaje Natural y Procesamiento de Datos*, Foro *Computación de la Teoría a la Práctica*, May 26–28, 1999, Mexico City.
  49. *Natural Language Analysis Tools for Decision Support*. Seminar Sistemas de Soporte a las Decisiones, Data Warehouse y Minería de Datos, May 12–14, 1999, Mexico City.
  50. *Two approaches to computational modeling of natural language*. **Keynote talk**. TAINA-99, International Workshop on Artificial Intelligence, CIC-IPN, Mexico D.F. (with I.A. Bolshakov).
  51. *Análisis de Lenguaje Natural y Procesamiento de Texto*. 8th Conference on Electric Engineering, 1997, Universidad Autónoma Metropolitana (UAM), Mexico City.

52. *Three Dictionary-Based Techniques of Disambiguation* (with Sofía N. Galicia Haro). 9th Conference on Engineering, September 29 to October 3, 1997, Instituto Tecnológico Autónomo de México (ITAM), Mexico City.
53. *Técnicas de Búsqueda de Errores y Estilo de Programación* (conferencia magistral). Semana de conferencias Trayectoria Visual Informática en el Nuevo Milenio, May 6–9, 1997, Instituto Tecnológico de Tlalnepantla, Mexico.

### **Atención de los medios, entrevistas, participación en los medios**

1. *La Lingüística Computacional de hoy* (*Computational Linguistics Today*). 24 minutes. Interview by the [Caro y Cuervo TV](#), [Instituto Caro y Cuervo](#), Bogotá, Colombia, November 26, 2018.
2. *Análisis de sentimientos y opinión en internet y redes sociales* (*Sentiment Analysis and Opinion Mining in Internet and Social Networks*). Programa 12 de [Escaparate de Ideas](#), Canal Once, IPN, Mexico. Participation together with my students. July 3, 2018.
3. *Deep Learning Reveals New Insights About People*, by David Pring-Mill. Interview on my paper “*Deep Learning-Based Document Modeling for Personality Detection from Text.*” [Datanami](#), an important “[news portal dedicated to providing insight, analysis and up-to-the-minute information about emerging trends and solutions in big data.](#)” September 21, 2017.
4. *Alexander Gelbukh, el matemático ruso cumple 20 años de incentivar la ciencia en México* (*Alexander Gelbukh: The Russian Mathematician Celebrates 20 Years of Encouraging Science in Mexico*), interview by Janet Cacelín. Agencia informativa del Consejo Nacional de Ciencia y Tecnología (Press Agency of the Mexican Ministry of Science), December 13, 2016.

# Trabajo editorial y publicaciones no arbitradas y otras

## Editor en Jefe, asociado o miembro del Consejo Editorial de revistas

1. *Cognitive Computation*, Springer, ISSN 1866-9956, **JCR** impact factor 2019: 4.307 (Q1). [Editorial Board member](#) since 2013.
2. Journal of Intelligent & Fuzzy Systems, IOS Press, ISSN 1064-1246, **JCR** impact factor 2019: 1.851 (Q3). [Editorial Board member](#) since 2021.
3. *Natural Language Engineering*, Cambridge University Press, ISSN 1351-3249, **JCR** impact factor 2019: 1.465 (Q3). [Editorial Board member](#) since 2021.
4. *Computación y Sistemas*, revista iberoamericana de computación. IPN, Mexico. ISSN 1405-5546. Indexed in [ISI](#), [ISI Emerging Sources](#), [Scopus](#), [DBLP](#), [SciELO](#), and [index of excellence of CONACYT](#). [Associate Editor](#) since approx. 2000.
5. *International Journal of Organizational Leadership*, Ardabil Industrial Management Institute, Iran, ISSN 2383-1103 (print), ISSN 2345-6744 (online). Indexed in [ISI Emerging Sources](#). [Editorial Board member](#) since approx. 2015.
6. *Procesamiento de Lenguaje Natural*, Spain, Spanish Society for Natural Language Processing ([SEPLN](#)); ISSN 1135-5948. Indexed in [ISI Emerging Sources](#), [Scopus](#). Member of [Advisory Committee](#), 2008–2021.
7. *International Journal of Computational Linguistics and Applications* (IJCLA), ISSN 0976-0962. India, [Bahri Publications](#). Indexed in [DBLP](#). **Editor-in-Chief** since 2010.
8. *Polibits*, research journal on computer science and computer engineering with applications. IPN, Mexico. Indexed in [DBLP](#), [SciELO](#), [Latindex](#), and [index of excellence of CONACYT](#). ISSN 1870-9044. [Editorial Board member](#) since 2008; **Editor-in-Chief** since 2011.
9. *Komputer Sapiens*, Mexico, revista de divulgación de la Sociedad Mexicana de Inteligencia Artificial ([SMIA](#)), [index of excellence of CONACYT](#). ISSN 2007-0691. [Editorial Board member](#) since 2008, **Director** in 2013–2016.
10. *Revue de l'Information Scientifique et Technique. Information processing at the digital age*, Algeria, biannual, published since 1991 by the Centre de Recherche sur

- l'Information Scientifique et Technique. ISSN: 1111-0015, eISSN: 2571-9947. [Editorial Board member](#), since 2018.
11. *Ingeniería, Desarrollo e Innovación*, Colombia, [Corporación Universitaria Latinoamericana](#). [Editorial Borad member](#) since 2018.
  12. *Research in Computing Science*, IPN, Mexico. ISSN 1665-9899. [Editorial Board member](#), since 2003. Indexed in [DBLP](#), [Latindex](#).
  13. *Oriental Journal of Computer Science and Technology*, India, ISSN 0974-6471, ISSN 2320-8481. [Editorial & Advisory Board member](#), since 2016.
  14. *International Journal of Computational Intelligence Research* (IJCIR), India, ISSN 0974-1259 (former ISSN 0973-1873). [Editorial Board member](#), since 2005.
  15. *International Journal of Translation* (IJT), [Bahri Publications](#), India. [Editorial Board Member](#), since 2007.
  16. *International Journal of Advanced Research in Computer Science and Software Engineering* (IJARCSSE), India, ISSN 2277-128X. [Advisory Board member](#), since 2013.
  17. *International Journal of Mobile Network Communications & Telematics* (IJMNCT), India, ISSN 1839-5678. [Editorial Borad member](#), since 2017.
  18. *Avances en Sistemas e Informática*, Universidad Nacional de Colombia. ISSN 1657-7663, 1909-0056. [Editorial Board Member](#), [since 2007](#).
  19. *International Journal of Advanced Intelligence*, Japan, ISSN 1883-3918. [Editorial Board member](#), since 2009.
  20. *Innovation: International Journal of Applied Research*. India, ISSN 2347-9272. [Editorial Board member](#), 2013–2017.
  21. *International Journal of IT-based Management for Smart Business* (IJITMSB), Australia, ISSN 2205-8362, eISSN 2207-5348. [Editorial Board member](#), since 2014.
  22. *International Journal of Research in Engineering, Technology and Science* (IJRETS), India, ISSN 2454-1915. [Review Boad member](#), since 2017.
  23. *International Journal of Combinatorial Optimization Problems and Informatics* (IJCOPI), Mexico, ISSN 2007-1558. [Editorial Board member](#), since 2010.
  24. *Asian Information-Science-Life: an International Journal*. [Nova Science Publishers Inc.](#), NY, USA; ISSN 1541-8219. [Editorial Board member](#), 2004–2006.
  25. *International Journal of Computers and Applications*, [ACTA Press](#), Canada – USA – Switzerland; published since 1979, indexed by [Cambridge Scientific Abstracts](#), [Compendex \(Engineering Information\)](#), [Emerald Abstracts](#), and [INSPEC](#); ISSN 1206-212X. [Editorial Board member](#), 2004–2014.
  26. *International Journal of Language and Linguistics*, [Science Publishing Group](#). ISSN 2330-0205. [Editorial Board member](#), December 19, [2018](#) to end of [2020](#).

27. *El Portulano de la Ciencia*. IPN, Mexico; printing 500. ISSN 1405-9207. Editorial Board member since 2000.

## Libros y revistas editados

1. Imran Sarwar Bajwa, Patrick Seeling, Alexandar Gelbukh. *Sensors and wearable-based intelligent systems (VSI-swis)*. Special section. *Computers & Electrical Engineering*, ISSN 0045-7906, vol. 92, June 2021.  
JCR impact factor 2020: 3.818 (Q2), SJR 2020 0.63 (Q1).
  - Imran Sarwar Bajwa, Patrick Seeling, Alexandar Gelbukh. *Sensors and wearable-based intelligent systems (VSI-swis)*. Guest editorial. *Computers & Electrical Engineering*, ISSN 0045-7906, vol. 92, June 2021, article 107146, 3 pp.; doi: 10.1016/j.compeleceng.2021.107146.  
JCR impact factor 2020: 3.818 (Q2) , SJR 2020 0.63 (Q1).
2. Alexander Gelbukh (Ed.). *Computational Linguistics*. Thematic Issue. *Computación y Sistemas*, vol. 23, no. 3, ISSN 1405-5546, 2019.
  - Alexander Gelbukh. *Computational Linguistics: Introduction to the Thematic Issue*. *Computación y Sistemas*, ISSN 1405-5546, vol. 23, no. 3, 2019, pp. 625–631; doi: 10.13053/CyS-23-3-3208.
3. Alexander Gelbukh (Ed.). *Advances in Natural Language Processing*. Thematic Issue. *Computación y Sistemas*, vol. 22, no. 3, ISSN 1405-5546, 2018.
  - Alexander Gelbukh. Introduction to the Thematic Issue on Natural Language Processing. *Computación y Sistemas*, ISSN 1405-5546, vol. 22, no. 3, 2018, pp. 721–727; doi: 10.13053/CyS-22-3-3032.
4. Alexander Gelbukh (Ed.). *Computational Linguistics and Intelligent Text Processing*. 18th International Conference, CICLing 2017, Budapest, Hungary, April 17–23, 2017, Revised Selected Papers, Part I. *Lecture Notes in Computer Science*, vol. 10762, ISBN 978-3-319-77113-7, ISSN 0302-9743. Springer, 2018, 613 pp.; doi: 10.1007/978-3-319-77113-7.
5. Alexander Gelbukh (Ed.). *Computational Linguistics and Intelligent Text Processing*. 18th International Conference, CICLing 2017, Budapest, Hungary, April 17–23, 2017, Revised Selected Papers, Part II. *Lecture Notes in Computer Science*, vol. 10761, ISBN 978-3-319-77116-8, ISSN 0302-9743. Springer, 2018, 674 pp.; doi: 10.1007/978-3-319-77116-8.
6. Alexander Gelbukh (Ed.). *Computational Linguistics and Intelligent Text Processing*. 17th International Conference, CICLing 2016, Konya, Turkey, April 3–9, 2016, Revised Selected Papers, Part I. *Lecture Notes in Computer Science*, vol. 9623, ISBN



- 978-3-319-75476-5, ISSN 0302-9743. Springer, 2018, 678 pp.; doi: [10.1007/978-3-319-75477-2](https://doi.org/10.1007/978-3-319-75477-2).
7. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing. 17th International Conference, CICLing 2016, Konya, Turkey, April 3–9, 2016, Revised Selected Papers, Part II. Lecture Notes in Computer Science*, vol. 9624, ISBN 978-3-319-75486-4, ISSN 0302-9743. Springer, 2018, 632 pp.; doi: [10.1007/978-3-319-75487-1](https://doi.org/10.1007/978-3-319-75487-1).
  8. [Ildar Batyrshin](#), [Alexander Gelbukh](#), [Grigori Sidorov](#) (Eds.). *Special Issue on Computational Intelligence of Acta Polytechnica Hungarica*, vol. 14, no. 3, 2017, ISSN 1785-8860.
    - [Ildar Batyrshin](#), [Alexander Gelbukh](#), [Grigori Sidorov](#). *Guest Editors' Introduction to the Special Issue on Computational Intelligence. Acta Polytechnica Hungarica*, vol. 14, no. 3, 2017, ISSN 1785-8860, pp. 7–12, doi: [10.12700/APH.14.3.2017.3.1](https://doi.org/10.12700/APH.14.3.2017.3.1).

JCR **impact factor** 2016: 0.745 (Q3).
  9. [Alexander Gelbukh](#) (Ed.). *Advances in Human Language Technologies*. Thematic Issue. *Computación y Sistemas*, vol. 21, no. 4, ISSN 1405-5546, 2017.
  10. [Rajendra Prasath](#), [Alexander Gelbukh](#) (Eds.). *Mining Intelligence and Knowledge Exploration*. 4<sup>th</sup> International Conference, MIKE 2016, Mexico City, Mexico, November 13–19, 2016, Revised Selected Papers. ISBN 978-3-319-58129-3. Lecture Notes in Computer Science, vol. 10089, 2017, 185 pp., doi: [10.1007/978-3-319-58130-9](https://doi.org/10.1007/978-3-319-58130-9).
  11. [Alexander Gelbukh](#) (Ed.). *International Journal of Translation*, Vol. 28, No. 1–2, ISSN 0970-9819, January–December, 2016, Bahri Publications, India.
  12. [Alexander Gelbukh](#) (Ed.). *Advances in Computational Syntax and Semantics*. Special issue. *Research in Computing Science*, Vol. 117, ISSN 1870-4069, IPN, 2016; printing 500.
  13. [Alexander Gelbukh](#) (Ed.). *Natural Language Processing and Computational Linguistics*. Thematic Issue. *Computación y Sistemas*, vol. 20, no. 3, ISSN 1405-5546, 2016.
  14. [Alexander Gelbukh](#) (Ed.). *Advances in Opinion Mining, Social Network Analysis, and Authorship Attribution*. Special issue. *Research in Computing Science*, Vol. 110, ISSN 1870-4069, IPN, 2016; printing 500.
  15. [Alexander Gelbukh](#) (Ed.). *Computational linguistics*. Special issue. *Computación y Sistemas*, vol. 19, no. 4, ISSN 1405-5546, 2015.
  16. [Alexander Gelbukh](#), [Samhaa R. El-Beltagy](#) (Eds.). *Advances in Computational Linguistics*. Special issue. *Research in Computing Science*, Vol. 90, ISSN 1870-4069, IPN, 2015; printing 500.

17. [Alexander Gelbukh](#), [Khaled Shaalan](#) (Eds.). [Advances in Arabic Computational Linguistics](#). First International Conference on Arabic Computational Linguistics, ACLing 2015. Revised Papers. 17–20 April 2015. Cairo, Egypt. ISBN 978-1-4673-9155-9, IEEE Computer Society, 152 pp.
18. [Ying Tan](#), [Yuhui Shi](#), [Fernando Buarque](#), [Alexander Gelbukh](#), [Swagatam Das](#), [Andries Engelbrecht](#) (Eds.). [Advances in Swarm and Computational Intelligence](#). 6<sup>th</sup> International Conference, ICSI 2015, held in conjunction with the Second BRICS Congress, CCI 2015, Beijing, China, June 25–28, 2015, Proceedings, Part I. Lecture Notes in Computer Science N 9140, Springer, 2015, ISSN 0302-9743; ISBN 978-3-319-20465-9, XXXI + 600 pp., doi: [10.1007/978-3-319-20466-6](#).
19. [Ying Tan](#), [Yuhui Shi](#), [Fernando Buarque](#), [Alexander Gelbukh](#), [Swagatam Das](#), [Andries Engelbrecht](#) (Eds.). [Advances in Swarm and Computational Intelligence](#). 6<sup>th</sup> International Conference, ICSI 2015, held in conjunction with the Second BRICS Congress, CCI 2015, Beijing, China, June 25–28, 2015, Proceedings, Part II. Lecture Notes in Computer Science N 9141, Springer, 2015, ISSN 0302-9743; ISBN 978-3-319-20471-0, XIX + 498 pp., doi: [10.1007/978-3-319-20472-7](#).
20. [Ying Tan](#), [Yuhui Shi](#), [Fernando Buarque](#), [Alexander Gelbukh](#), [Swagatam Das](#), [Andries Engelbrecht](#) (Eds.). [Advances in Swarm and Computational Intelligence](#). 6<sup>th</sup> International Conference, ICSI 2015, held in conjunction with the Second BRICS Congress, CCI 2015, Beijing, China, June 25–28, 2015, Proceedings, Part III. Lecture Notes in Computer Science N 9142, Springer, 2015, ISSN 0302-9743; ISBN 978-3-319-20468-0, XIX + 496 pp., doi: [10.1007/978-3-319-20469-7](#).
21. [Alexander Gelbukh](#) (Ed.). [Computational Linguistics and Intelligent Text Processing. Proceedings](#). 16<sup>th</sup> International Conference, CICLing 2015, Cairo, Egypt, April 14-20, 2015, Proceedings, Part I. Lecture Notes in Computer Science N 9041, Springer, 2015, ISSN 0302-9743, ISBN 978-3-319-18110-3, XXVII + 662 pp., doi: [10.1007/978-3-319-18111-0](#).
22. [Alexander Gelbukh](#) (Ed.). [Computational Linguistics and Intelligent Text Processing. Proceedings](#). 16<sup>th</sup> International Conference, CICLing 2015, Cairo, Egypt, April 14-20, 2015, Proceedings, Part II. Lecture Notes in Computer Science N 9042, Springer, 2015, ISSN 0302-9743, ISBN 978-3-319-18116-5, XXVII + 686 pp., doi: [10.1007/978-3-319-18117-2](#).
23. [Alexander Gelbukh](#), [Félix Castro Espinoza](#), [Sofía N. Galicia-Haro](#) (Eds.). [Human-Inspired Computing and Its Applications](#). 13<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICA I 2014, Tuxtla Gutiérrez, Mexico, November 16–22, 2014. Proceedings, Part I. Lecture Notes in Artificial Intelligence N 8856, ISSN 0302-9743; ISBN 978-3-319-13646-2, Springer, 2014, XXX + 508 pp., doi: [10.1007/978-3-319-13647-9](#).

24. [Alexander Gelbukh](#), Félix Castro Espinoza, Sofía N. Galicia-Haro (Eds.). *Nature-Inspired Computation and Machine Learning*. 13<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2014, Tuxtla Gutiérrez, Mexico, November 16–22, 2014. Proceedings, Part II. Lecture Notes in Artificial Intelligence N 8857, ISSN 0302-9743; ISBN 978-3-319-13649-3, Springer, 2014, XXX + 522 pp., doi: [10.1007/978-3-319-13650-9](https://doi.org/10.1007/978-3-319-13650-9).
25. [Alexander Gelbukh](#) (Ed.). *Computational linguistics*. Special issue. *Computación y Sistemas*, vol. 18, no. 3, ISSN 1405-5546, 2014.
26. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing. Proceedings*. 15<sup>th</sup> International Conference, CICLing 2014, Kathmandu, Nepal, April 6–12, 2014. Proceedings, Part I. Lecture Notes in Computer Science N 8403, Springer, 2014, ISBN 978-3-642-54905-2, XXIII + 531 pp.
27. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing. Proceedings*. 15<sup>th</sup> International Conference, CICLing 2014, Kathmandu, Nepal, April 6–12, 2014. Proceedings, Part II. Lecture Notes in Computer Science N 8404, Springer, 2014, ISBN 978-3-642-54902-1, XXIV + 581 pp.
28. [Sabu M. Thampi](#), [Alexander Gelbukh](#), [Jayanta Mukhopadhyay](#) (Eds.). *Advances in Signal Processing and Intelligent Recognition Systems*. Advances in Intelligent Systems and Computing, volume 264. ISBN 978-3-319-04959-5, ISBN 978-3-319-04960-1, ISSN 2194-5357, ISSN 2194-5365, doi: [10.1007/978-3-319-04960-1](https://doi.org/10.1007/978-3-319-04960-1), Springer, 2014, XXI + 612 pp.
29. [Alexander Gelbukh](#), Miguel González Mendoza, Félix Castro Espinoza (Eds.). *Advances in Soft Computing Techniques*. Special issue. Research in Computing Science, Vol. 68, ISSN 1870-4069, IPN, 2013; printing 500.
30. Félix Castro, [Alexander Gelbukh](#), Miguel González Mendoza (Eds.). *Advances in Artificial Intelligence and Its Applications*. 12<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2013, Mexico City, Mexico, November 2013. Proceedings, Part I. Lecture Notes in Artificial Intelligence N 8265, ISSN 0302-9743; ISBN 978-3-642-45113-3, Springer, 2013, XXVI+585 pp., doi: [10.1007/978-3-642-45114-0](https://doi.org/10.1007/978-3-642-45114-0).
31. Félix Castro, [Alexander Gelbukh](#), Miguel González Mendoza (Eds.). *Advances in Soft Computing and Its Applications*. 12<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2013, Mexico City, Mexico, November 2013. Proceedings, Part II. Lecture Notes in Artificial Intelligence N 8266, ISSN 0302-9743; ISBN 978-3-642-45110-2, Springer, 2013, XXVI+535 pp., doi: [10.1007/978-3-642-45111-9](https://doi.org/10.1007/978-3-642-45111-9).
32. Félix Castro, [Alexander Gelbukh](#), Miguel González Mendoza (Eds.). *Twelfth Mexican International Conference on Artificial Intelligence. Special Session. Revised Papers*. 24 to 30 November 2013. Mexico City, Mexico. IEEE CPS, ISBN 978-1-4799-2605-3.

33. [Alexander Gelbukh](#) (Ed.). *Computational linguistics*. Special issue. *Computación y Sistemas*, vol. 17, no. 2, ISSN 1405-5546, 2013.
34. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 14<sup>th</sup> International Conference, CICLing 2013, Samos, Greece, March 24–30, 2013. Proceedings, Part I. Lecture Notes in Computer Science N 7816, Springer, 2013, ISBN 978-3-642-37246-9, XXV+576 pp., doi: [10.1007/978-3-642-37247-6](https://doi.org/10.1007/978-3-642-37247-6).
35. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 14<sup>th</sup> International Conference, CICLing 2013, Samos, Greece, March 24–30, 2013. Proceedings, Part II. Lecture Notes in Computer Science N 7817, Springer, 2013, ISBN 978-3-642-37255-1, XXVI+576 pp., doi: [10.1007/978-3-642-37256-8](https://doi.org/10.1007/978-3-642-37256-8).
36. [Alexander Gelbukh](#), [Ajith Abraham](#), [Albert Zomaya](#), [Andre Carvalho](#), [Simone Ludwig](#), [Ana Maria Madureira](#), [Siby Abraham](#) (Eds.). NaBIC 2012, 2012 Fourth World Congress on Nature and Biologically Inspired Computing (NaBIC). 05–09 November 2012 Mexico City, Mexico. ISBN 978-1-4673-4768-6. IEEE, 2012, 217 pp.
37. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 13<sup>th</sup> International Conference, CICLing 2012, New Delhi, India, March 11–17, 2012. [Proceedings, Part I](#). Lecture Notes in Computer Science N 7181, Springer, 2012, ISBN 978-3-642-28604-9, 617 pp.
38. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 13<sup>th</sup> International Conference, CICLing 2012, New Delhi, India, March 11–17, 2012. [Proceedings, Part II](#). Lecture Notes in Computer Science N 7182, Springer, 2012, ISBN 978-3-642-28601-8, 517 pp.
39. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 12<sup>th</sup> International Conference, CICLing 2011, Tokyo, Japan, February 20–26, 2011. [Proceedings, Part I](#). Lecture Notes in Computer Science N 6608, Springer, 2011, ISBN 978-3-642-19399-6, 488 pp.
40. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. Proceedings. 12<sup>th</sup> International Conference, CICLing 2011, Tokyo, Japan, February 20–26, 2011. [Proceedings, Part II](#). Lecture Notes in Computer Science N 6609, Springer, 2011, ISBN 978-3-642-19436-8, 544 pp.
41. [Alexander Gelbukh](#) (ed.). *Natural Language Processing and its Applications*. Special issue of *Research in Computing Science*, Vol. 46, ISSN 1870-4069, IPN, 2010, 320 pp.; printing 500.
42. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. [Proceedings](#). 11<sup>th</sup> International Conference, CICLing 2010, Iași, Romania, March 21–27, 2010. Proceedings. Lecture Notes in Computer Science N 6008, Springer, 2010, ISBN 978-3-642-12115-9, 761 pp.

43. [Alejandro Buchmann](#), Rafael Lozano, Francisco Acosta, Gabriel López, José Antonio García, [Alexander Gelbukh](#), José Luis Zechinelli (Eds.). *10<sup>th</sup> Mexican International Conference on Computer Science*. ENC 2009, 21–25 September 2009, Mexico City, Mexico, IEEE CS Press, 2009, ISBN 978-0-7695-3882-7, 390 pp.
44. [Alexander Gelbukh](#) (Ed.). *Natural Language Processing and Knowledge Management*. Special issue of *Polibits*, ISSN 1870-9044, Issue 39, IPN, January–June 2009.
45. [Alexander Gelbukh](#) (Ed.). *Artificial Intelligence and Applications: Hybrid Intelligent Systems, Intelligent Learning Environments, and Computer Security*. Workshops MICAI 2009. Sociedad Mexicana de Inteligencia Artificial, 2009. ISBN 978-607-95367-0-1. Printing 500.
46. [Alexander Gelbukh](#), Miguel González Mendoza, [Oscar Herrera Alcántara](#) (Eds.). *Artificial Intelligence and Applications: Complementary Proceedings of MICAI 2009, 8<sup>th</sup> Mexican International Conference on Artificial Intelligence*. Electronic edition. ISBN 978-607-95367-1-8. Sociedad Mexicana de Inteligencia Artificial, 2009.
47. [Alexander Gelbukh](#) (Ed.). *Advances in Computational Linguistics*. Special issue of Research in Computing Science, Vol. 41, ISSN 1870-4069, IPN, 2009, 306 pp.; printing 500.
48. [Alexander Gelbukh](#) (Ed.). *Computational Linguistics and Intelligent Text Processing*. 10<sup>th</sup> International Conference, CICLing 2009, Mexico City, Mexico, March 1–7, 2009. Proceedings. Lecture Notes in Computer Science N 5449, Springer, 2009, ISBN 978-3-642-00381-3.
49. [Alexander Gelbukh](#), [Eduardo Morales](#) (Eds.). *Seventh Mexican International Conference on Artificial Intelligence. Proceedings of the Special Session*. IEEE Computer Society Press, 2008. ISBN 978-0-7695-3441-1. 430 pp.
50. [Alexander Gelbukh](#), [Eduardo F. Morales](#) (Eds.). *MICAI 2008: Advances in Artificial Intelligence*. 7<sup>th</sup> Mexican International Conference on Artificial Intelligence, Atizapán de Zaragoza, Mexico, October 27–31, 2008 Proceedings. Lecture Notes in Artificial Intelligence N 5317, ISSN 0302-9743; ISBN 3-540-88635-4, ISBN 978-3-540-88635-8, Springer, 2008, 1034 pp.
51. [Alexander Gelbukh](#), [Michel Adiba](#) (Eds.). *Advances in Computer Science and Artificial Intelligence*. Special issue of Research in Computing Science, Vol. 39, ISSN 1870-4069, IPN, 2008, 282 pp.; printing 500.
52. [Alexander Gelbukh](#), [Michel Adiba](#) (Eds.). *Ninth Mexican International Conference on Computer Science*. IEEE Computer Society Press, 2008. ISBN 978-0-7695-3439-8, ISSN 1550-4069. 330 pp.
53. [Alexander Gelbukh](#), [Ángel Kuri Morales](#) (Eds.). *Sixth Mexican International Conference on Artificial Intelligence. Special Session. Revised papers*. IEEE Computer Society Press, 2008. 430 pp. ISBN 978-0-7695-3124-3.



54. [Alexander Gelbukh](#) (Ed.). *Computational Treatment of Language*. Special issue of Language Forum (A Journal of Language and Literature), ISSN 0253-9071, vol. 34, 2008, Bahri Publications, India.
55. [Alexander Gelbukh](#) (Ed.). *Advances in Natural Language Processing and Applications*. Special issue of Research in Computing Science, Vol. 33, ISSN 1870-4069, IPN, 2008, 252 pp.; printing 500.
56. [Alexander Gelbukh](#) (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of *CICLing 2008*, February 2008, Lecture Notes in Computer Science N 4919; ISSN 0302-9743; ISBN 3-540-78134-X, ISBN 978-3-540-78134-9, Springer, 2008, 666 pp.
57. [Alexander Gelbukh](#), [Ángel Kuri Morales](#) (Eds.). *Advances in Artificial Intelligence and Applications*. Special issue of Research in Computing Science, Vol. 32, ISSN 1870-4069, IPN, 2007, 494 pp.; printing 500.
58. [Alexander Gelbukh](#), Sergio Suárez Guerra, [Hiram Calvo Castro](#) (Eds.). *Advances in Computer Science and Engineering*. Special issue of Research in Computing Science, Vol. 29, ISSN 1870-4069, IPN, 2007, 316 pp.; printing 500.
59. Alexander Gelbukh et al. (Eds.) *Magnum Conference on Computing 2007*. CD-ROM. ISBN 978-970-36-0430-2. IPN, Mexico, 2007.
60. [Alexander Gelbukh](#), [Ángel Kuri Morales](#) (Eds.). *MICAI 2007: Advances in Artificial Intelligence*. 6<sup>th</sup> Mexican International Conference on Artificial Intelligence, Aguascalientes, Mexico, November 4–10, 2007, Proceedings. Lecture Notes in Artificial Intelligence N 4827, ISSN 0302-9743; ISBN 978-3-540-76630-8, Springer, 2007, 1234 pp.
61. [Alexander Gelbukh](#) (Ed.). *Lexical Resources for Machine Translation*. Special issue of International Journal of Translation, vol. 19, 2007, Bahri Publications, India.
62. [Alexander Gelbukh](#) (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of *CICLing 2007*, February 2007, Lecture Notes in Computer Science N 4394; ISSN 0302-9743; ISBN 354-07-0938-X, 978-3-540-70938-1, Springer, 2007, 648 pp.
63. [Alexander Gelbukh](#), Carlos Alberto Reyes-García (Eds.). *Advances in Artificial Intelligence*. Research in Computing Science, Vol. 26, ISSN 1870-4069, IPN, 2006, printing 500.
64. [Alexander Gelbukh](#), Sergio Suárez Guerra (Eds.). *Advances in Computer Science and Engineering*. Research in Computing Science, Vol. 23, ISSN 1870-4069, IPN, 2006, printing 500.
65. [Alexander Gelbukh](#), Sergio Suárez Guerra (Eds.). *Proceedings of the 15<sup>th</sup> International Conference on Computing*. IEEE Computer Society Press, 2006.

66. Alexander Gelbukh, Carlos Alberto Reyes-García (Eds.). *Proceedings of the 5<sup>th</sup> Mexican International Conference on Artificial Intelligence*. IEEE Computer Society Press, 2006, ISBN 0-7695-2722-1.
67. Alexander Gelbukh, Carlos Alberto Reyes-García (Eds.). *MICAI 2006: Advances in Artificial Intelligence*. Lecture Notes in Artificial Intelligence, N 4293, ISSN 0302-9743, ISBN 978-3-540-49026-5, Springer, 2006, XXVIII + 1232 pp.
68. Alexander Gelbukh, Sulema Torres, Itzamá López (Eds.). *Advances in Artificial Intelligence*. Research in Computing Science, Vol. 20, ISSN 1665-9899, IPN, 2006, printing 500.
69. Alexander Gelbukh, Sulema Torres, Itzamá López (Eds.). *Advances in Computer Science and Engineering*. Research in Computing Science, Vol. 19, ISSN 1665-9899, IPN, 2006, printing 500.
70. Alexander Gelbukh (Ed.). *Advances in Natural Language Processing*. Research in Computing Science, Vol. 18, ISSN 1665-9899, IPN, 2006, printing 500, 216 pp.
71. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of *CICLing 2006*, February 2006, Lecture Notes in Computer Science N 3878; ISSN 0302-9743; ISBN 3-540-32205-1, Springer, 2006, 589 pp.
72. Alexander Gelbukh, Manuel Montes y Gómez (Eds.). *Natural Language Understanding and Intelligent Access to Textual Information*. Workshop proceedings, in *MICAI-2005*, ISBN 968-891-094-5.
73. Alexander Gelbukh, Raúl Monroy (Eds.). *Advances in Artificial Intelligence Applications*. Research on Computing Science, Vol. 17, ISSN 1665-9899, IPN, 2005, printing 500.
74. Alexander Gelbukh, Raúl Monroy (Eds.). *Advances in Artificial Intelligence Theory*. Research on Computing Science, Vol. 16, ISSN 1665-9899, IPN, 2005, printing 500.
75. Alexander Gelbukh, Álvaro Albornoz, Hugo Terashima-Marín (Eds.). *MICAI 2005: Advances in Artificial Intelligence*. Lecture Notes in Artificial Intelligence, N 3789, ISSN 0302-9743, ISBN 3-540-29896-7, ISBN 978-3-540-29896-0, Springer, 2005, 1198 pp.
76. Alexander Gelbukh, Cornelio Yáñez Márquez, Oscar Camacho Nieto (Eds.). *Advances in Artificial Intelligence and Computer Science*. Research on Computing Science, Vol. 14, ISSN 1665-9899, IPN, 2005, printing 500.
77. Alexander Gelbukh, Hiram Calvo (Eds.). *Advances in Computer Science in Mexico*. Research on Computing Science, Vol. 13, ISSN 1665-9899, IPN, 2005, 256 pp.
78. Jesús Cardeñosa, Alexander Gelbukh, Edmundo Tovar (Eds.) *Universal Networking Language: Advances in Theory and Applications*. Research on Computing Science, Vol. 12, ISSN 1665-9899, ISBN 970-36-0226-6, IPN, 2005, 443 pp.



79. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of [CICLing 2005](#), February 2005, CIC-IPN, Mexico City. Lecture Notes in Computer Science N 2945; ISBN 3-540-24523-5, Springer, 2005, 829 pp.
80. Jesús Figueroa Nazuno, Alexander Gelbukh Khan, Cornelio Yáñez Márquez, Oscar Camacho Nieto (Eds.). *Advances in: Artificial Intelligence, Computing Science and Computer Engineering*. Research on Computing Science, Vol. 10, ISSN 1665-9899, ISBN 970-36-0194-4, CIC-IPN, 2004. Printing 500.
81. Miguel Arias Estrada, Alexander Gelbukh (Eds.). *Avances en la Ciencia de la Computación*. (Quinto Encuentro Nacional de Computación ENC'04, del 20 al 24 de septiembre de 2004, Colima, Col., México). ISBN 970-692-170-2, Mexican Society of Computer Science (SMCC) and University of Colima, 2004, 701 pp.
82. Alexander Gelbukh, Grigori Sidorov, Wilbert A. Olán Cristobal, José Ángel Vera Félix (Eds.) *Recientes avances en la Ciencia de la Computación en México*. Series Research on Computer Science, vol. 7, ISBN 970-36-0149-9, IPN, 2004, printing 500, 205 pp.
83. Sang Yong Han, Alexander Gelbukh (Eds.) *CICLing-2004, Fifth International Conference on Intelligent Text Processing and Computational Linguistics (Proceedings)*. Chung-Ang University, Seoul, Korea, 2004, 124 pp.
84. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of [CICLing 2004](#), February 2004, Chung-Ang University, Seoul, Korea. Lecture Notes in Computer Science N 2945; ISBN 3-540-21006-7, Springer, 2004, 647 pp.
85. Macario Hernández Cruz, Alexander Gelbukh (Eds.) *Avances en la Ciencia de la Computación en México*. ISBN 970-36-0026-3, Series Research on Computing Science, Vol. 2, printing 500, IPN, 2003, 349 pp.
86. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of [CICLing 2003](#), February 2003, CIC-IPN, Mexico City. Lecture Notes in Computer Science N 2588; ISBN 3-540-00532-3, Springer, 2003, 648 pp.
87. Juan Humberto Sossa Azuela, Carlos Aguilar Ibañes, Matías Alvarado Mentado, Alexander Gelbukh (Eds.) *Avances en Ciencias de la Computación e Ingeniería de Cómputo*. Proc. XI Congreso Internacional de Computación, Mexico City, November 25–29, 2002, printing 800. ISBN 970-18-8590-2 (complete book); ISBN 970-18-8591-0 (printed book); ISBN 970-18-8592-9 (CD version), Vol. I. 518 pp.
88. Juan Humberto Sossa Azuela, Carlos Aguilar Ibañes, Matías Alvarado Mentado, Alexander Gelbukh (Eds.) *Avances en Ciencias de la Computación e Ingeniería de Cómputo*. Proc. XI Congreso Internacional de Computación, Mexico City, November 25–29, 2002, printing 800. ISBN 970-18-8590-2 (complete book); ISBN 970-18-8591-0 (printed book); ISBN 970-18-8592-9 (CD version). Vol. II. 541 pp.

89. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of *CICLing 2002*, February 2002, CIC-IPN, Mexico City. Lecture Notes in Computer Science N 2276; ISBN 3-540-43219-1, Springer, 2002, 444 pp.
90. Alexander Gelbukh (Ed.) *Computational Linguistics and Intelligent Text Processing*. Proc. of *CICLing 2001*, February 2001, CIC-IPN, Mexico City. Lecture Notes in Computer Science N 2004; ISBN 3-540-41687-0, Springer, 2001, 528 pp.
91. Alexander Gelbukh (Ed.) *International Conference CICLing-2000: Conference on Intelligent Text Processing and Computational Linguistics (Proceedings)*. February 13–19, 2000, Mexico City, Mexico. CIC-IPN, ISBN 970-18-4206-5, 430 pp.

## Reseñas

Todas las reseñas fueron escritas por invitación de los editores de la revista correspondiente.

1. Roger Evans, Alexander Gelbukh, Gregory Grefenstette, Patrick Hanks, Miloš Jakubiček, Diana McCarthy, Martha Palmer, Ted Pedersen, Michael Rundell, Pavel Rychlý, Serge Sharoff, David Tugwell. *Adam Kilgarriff's Legacy to Computational Linguistics and Beyond*. Computational Linguistics and Intelligent Text Processing. *CICLing 2016*. Lecture Notes in Computer Science, vol. 9623, ISBN 978-3-319-75476-5, ISSN 0302-9743. Springer, 2018, pp. 3-25; doi: [10.1007/978-3-319-75477-2\\_1](https://doi.org/10.1007/978-3-319-75477-2_1).
  2. Alexander Gelbukh, Grigori Sidorov. *9th Mexican International Conference on Artificial Intelligence, 8–13 November*. *The Reasoner*, ISSN 1757-0522, vol. 5, no. 4, April 2011, pp. 57–58.
  3. Alexander Gelbukh. Critical review of Anosov's spell-checking algorithm. *Computerra (Компьютерра)*, N 17 (781), April 4, 2009. ISSN 1815-2198. p. 35.
  4. Alexander Gelbukh. Critical review of the paper: S. Menchetti, F. Costa, P. Frasconi, M. Pontil. *Wide coverage natural language processing using kernel methods and neural networks for structured data*. *Computing Reviews*, ISSN 1530-6585, 2006.
  5. Alexander Gelbukh. Critical review of the paper: Marius Paşca. *Acquisition of Categorized Named Entities for Web Search*. *Computing Reviews*, ISSN 1530-6585, 2005.
  6. Alexander Gelbukh. Critical review of the paper: Douglas W. Oard. *The surprise language exercises*. *Computing Reviews*, ISSN 1530-6585, 2004.
- ★ **Highlight review**. One of 50 reviews recommended by the Editors in 2004, out of more than 700 ones published in that year.
7. Alexander Gelbukh. *CICLing-2003. February 2003. Mexico City, Mexico*. MT News International. Newsletter of the International Association for Machine Translation, issue 34 (vol. 12, no. 1), winter 2003, ISSN 0965-5476, pp. 5, 15.

8. [Alexander Gelbukh](#). *CICLing-2002: Pyramids, butterflies, and computational linguistics*. Machine Translation News International (Newsletter of the International Association for Machine Translation), ISSN 0965-5476, N 30 (vol. 11, no 3), March 2002, pp. 6–8.
9. [Alexander F. Gelbukh](#). Book review of: *Foundations of Computational Linguistics: Man-Machine Communication in Natural Language*, by R. Hausser. *Computational Linguistics*, ISSN 0891-2017, N 26.3, September 2000, pp. 449–455.  
JCR impact factor 2000: 1.146, 2010: 2.971.

### Artículos en revistas de divulgación científica

1. [Navonil Majumder](#), [Alexander Gelbukh](#), [Soujanya Poria](#). *Análisis de sentimientos y emociones en redes sociales*. Invited paper. *Komputer Sapiens*, ISSN 2007-0691. Año XIII, vol. I, 2021, p. 32–33.
2. [Muhammad Hammad Fahim Siddiqui](#), [Alexander Gelbukh](#). *Detección de emociones en los medios sociales*. Invited paper. *Komputer Sapiens*, ISSN 2007-0691. Año XIII, vol. I, 2021, p. 32–33.
3. [Alexander Gelbukh](#). *Había una vez... una máquina parlante*. *Revista Ciencia y Desarrollo*, Vol. 37, N 251, April 2011. ISSN 0185-0008, CONACYT, 15 pp.
4. [Alexander Gelbukh](#). *Procesamiento de lenguaje natural y sus aplicaciones*. **Invited paper**. *Komputer Sapiens*, ISSN 2007-0691. Año II, vol. I, 2010, p. 6–11.
5. [Hiram Calvo](#), [Alexander Gelbukh](#). *Platicar supone la capacidad de pensar?* *Conversus*, Vol. 36, diciembre 2004 – enero 2005, ISSN 1665-2665, p. 22–27.
6. [Alexander Gelbukh](#). *Las computadoras pueden escuchar, leer, conversar?* *Conversus*, Vol. 36, diciembre 2004 – enero 2005, ISSN 1665-2665, p. 10–17.
7. [Alexander Gelbukh](#), [Igor Bolshakov](#). *Avances y Perspectivas de Procesamiento Automático de Lenguaje Natural*. “IPN Ciencia, Arte: Cultura,” No. 31 Vol. II, May-June 2000, ISSN 1405-2822. IPN, Mexico, pp. 10–18.
8. [Alexander Gelbukh](#) (interview by Verónica Hernández López). *Tercer milenium: en qué nos ayudarán las computadoras*. “IPN Ciencia, Arte: Cultura,” No. 26 Vol. II, Julio-Agosto 1999, ISSN 1405-2822. IPN, Mexico, pp. 16–20.

### Informes técnicos con ISBN

1. [Alexander Gelbukh](#), [Grigori Sidorov](#), [L. Chanona Hernández](#). *Compilación automática del corpus representativo para el español a través de Internet*. Technical report, Serie Azul, N 146, June 2002. CIC, IPN, ISBN 970-18-8242-3, 78 pp.

2. Manuel Montes-y-Gómez, Aurelio López-López, Alexander F. Gelbukh, Grigori Sidorov, Adolfo Guzmán-Arenas. *Text mining: new techniques and applications*. Technical report, Serie Azul, N 34, August 1999. CIC, IPN, ISBN 970-18-3512-3, 18 pp.  
Collection of revised versions of previous publications.
3. A.F. Gelbukh, I.A. Bolshakov, Sofia N. Galicia-Haro, M.A. Alexandrov, P.P. Makagonov, P.J. Cassidy. *Dictionaries for text processing and language teaching: use and compilation*. Technical report, Serie Roja, N 61. CIC, IPN, ISBN 970-18-3322-8, 1999, 33 pp.  
Extended versions of the abstracts, 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.
4. I. Bolshakov, A. Gelbukh, S. Galicia Haro, M. Orozco Guzmán. *Government patterns of 670 Spanish verbs*. Technical report, Serie Roja, N 35. CIC, IPN, 1998, ISBN 970-18-1893-8, 65 pp.
5. A. Gelbukh. *Using a Semantic Network Dictionary in Some Tasks of Disambiguation and Translation*. Technical report, Serie Roja, N 36. CIC, IPN, 1998, ISBN 970-18-1894-6, 23 pp.
6. A. Gelbukh, I. Bolshakov, S. Galicia Haro. *Syntactic Disambiguation by Learning Weighted Government Patterns from a Large Corpus*. Technical report, Serie Roja, N 32. CIC, IPN, 1998, ISBN 970-18-1792-3, 15 pp.
7. B. Zagatsky, N.V. Pertsov, A. Gelbukh. *The Linguistic Processor of the knowledge base on scientific research and development* (in Russian). Report VNTIC (AUSTIC) N 02900 003868, Moscow: 1990.

## Resúmenes en memorias de congresos internacionales

1. Alonso Palomino-Garibay, Sofía N. Galicia-Haro, Alexander Gelbukh. *Análisis de la negación léxica: Para la clasificación supervisada de la orientación semántica de opiniones*. 12<sup>o</sup> Taller de Tecnologías del Lenguaje Humano, Oct. 15–16, 2015, Mexico City.
2. Alisa Zhila, Alexander Gelbukh. *La extracción abierta de información para el español*. VI Coloquio de Lingüística Computacional, UNAM, Mexico City, 2013.
3. Sabino Miranda, Alexander Gelbukh, Grigori Sidorov. *Model for Automatic Text Summarization based on Conceptual Graphs*. Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). Proceedings of the Doctoral Consortium at the 10<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI-2011, November 28, 2011, Puebla, Mexico, ISBN 978-607-95367-4-9.
4. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Answer Validation System through Textual Entailment and Universal Networking Language*. Miguel González

- Mendoza, Oscar Herrera Alcántara (Eds.). Proceedings of the Doctoral Consortium at the 10<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI-2011, November 28, 2011, Puebla, Mexico, ISBN 978-607-95367-4-9.
5. [Francisco Viveros](#), [Alexander Gelbukh](#), [Grigori Sidorov](#). *Improving Simplified Lesk Algorithm through associative dictionaries*. Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). Proceedings of the Doctoral Consortium at the 10<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI-2011, November 28, 2011, Puebla, Mexico, ISBN 978-607-95367-4-9.
  6. Alisa Zhila, [Alexander Gelbukh](#). *Improving Machine Translation with Automatic Cross-Lingual Word Sense Discrimination*. Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). Proceedings of the Doctoral Consortium at the 10<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI-2011, November 28, 2011, Puebla, Mexico, ISBN 978-607-95367-4-9.
  7. [Alexander Gelbukh](#). *Natural Language Processing. Keynote talk*. 5<sup>th</sup> International Conference on Hybrid Intelligent Systems HIS 2005, IEEE CS Press, ISBN 0-7695-2457-5, Rio de Janeiro, Brazil, November 6–9, 2005.
  8. [Alexander Gelbukh](#), [Grigori Sidorov](#). *Representatividad morfológica en los corpus*. VIII Encuentro Internacional de Lingüística en el Noroeste, Universidad de Sonora, Mexico, 17–19, 2004, p. 208.
  9. Pavel Makagonov, Mikhail Alexandrov, [Alexander Gelbukh](#). *Métodos de clustering y sus aplicaciones* (tutorial abstract). CLEI-2004, 30 Conferencia Latinoamericana de Informática, Arequipa, Peru, September 2004, ISBN 9972-9876-2-0, p. 3.
  10. Mikhail Alexandrov, [Alexander Gelbukh](#), Paolo Rosso. *Clustering Very Short Documents based on Grouping Keywords*. CLEI-2004, 30 Conferencia Latinoamericana de Informática, Arequipa, Peru, September 2004, ISBN 9972-9876-2-0, p. 133.
  11. Ales Bourek, Mikhail Alexandrov, [Alexander Gelbukh](#). *Representing Clusters by Typical Documents for Navigating the Search Results in Relevance Feedback Procedure*. CLEI-2004, 30 Conferencia Latinoamericana de Informática, Arequipa, Peru, September 2004, ISBN 9972-9876-2-0, p. 134.
  12. [Alexander Gelbukh](#). *Algunas técnicas para el procesamiento de texto basadas en diccionarios. Keynote talk*. CLEI-2004, 30 Conferencia Latinoamericana de Informática, Arequipa, Peru, September 2004, ISBN 9972-9876-2-0, p. 16.
  13. George Adelson-Velsky, [Alexander Gelbukh](#), Eugene Levner. *Finding extremal paths in grammars, AND-OR graphs, and hypergraphs* (abstract). AIRO2003 - XXXIV Annual Conference of the Operational Research Society of Italy - Venice, September 2–5, 2003, p. 24.

[www.dma.unive.it/airo2003](http://www.dma.unive.it/airo2003), [www.dma.unive.it/airo2003/ATTIrete-new.pdf](http://www.dma.unive.it/airo2003/ATTIrete-new.pdf).

14. George Adelson-Velsky, [Alexander Gelbukh](#), Eugene Levner. *Finding extremal paths in AND-OR graphs, hypergraphs and grammars* (abstract). IFORS-2002, The sixteenth triennial conference of the International Federation of Operational Research Societies, July 8–12, 2002, Edinburgh, UK, p. 20–21.  
[ifors2002.org](http://ifors2002.org)
15. [Grigori Sidorov](#), [Alexander Gelbukh](#), L. Chanona-Hernández. *System for automatic building of a representative corpus using Internet* (extended abstract). Joint International Conference of the Association for Literary and Linguistic Computing and the Association for Computers and the Humanities (ALLC / ACH 2002), Tübingen, July 24–28, 2002, pp 118–120.
16. [Alexander Gelbukh](#), [Grigori Sidorov](#), Igor A. Bolshakov. *Role of lexical meaning in resolution of hidden anaphora for demonstrative pronouns* (abstract). Proc. 7<sup>th</sup> International Pragmatics Conference, Budapest, 9–14 July 2000, p. 266.
17. Pavel P. Makagonov, Mikhail A. Alexandrov, [Alexander F. Gelbukh](#). *Keyword-Based Visual Classification of interdisciplinary Documents* (abstract). Proc. Data Analysis, Classification, and Related Methods, IFCS-2000: 7th Conference of the International Federation of Classification Societies. Namur, Belgium, July 11–14, 2000.  
[www.fundp.ac.be/~ifcs2000/programme/preliminary\\_program.html](http://www.fundp.ac.be/~ifcs2000/programme/preliminary_program.html)
18. [A.F. Gelbukh](#), Sofia N. Galicia-Haro. *An extended subcategorization frames dictionary* (abstract). Program of 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.  
[www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html](http://www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html)
19. P.J. Cassidy, I.A. Bolshakov, [A.F. Gelbukh](#). *A bilingual thesaurus of related concepts* (abstract). Program of 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.  
[www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html](http://www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html)
20. I.A. Bolshakov, [A.F. Gelbukh](#). *Lexical functions in language acquisition* (abstract). Program of 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.  
[www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html](http://www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html)
21. I.A. Bolshakov, [A.F. Gelbukh](#). *A word combination dictionary* (abstract). Program of 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.  
[www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html](http://www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html)



22. [Alexander Gelbukh](#). *Dictionaries for non-native language teaching: use and compilation* (colloquium abstract). Program of 30<sup>th</sup> Annual Conference of Canadian Association of Applied Linguistic in conjunction with Congress of the Social Sciences and Humanities, Sherbrooke, Canada, June 3–5, 1999.  
[www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html](http://www.uwo.ca/french/acla/conf99/abstr99/73gelbukh.html)
23. [A. Gelbukh](#). *A system of morphological analysis of Russian word-forms*. International forum Tex-Eks'90 — Technology Exchange, Plovdiv, Bulgaria, 1990.
24. B. Zagatsky, N.V. Pertsov, [A. Gelbukh](#). *A system of syntactical analysis of Russian sentences*. International forum Tex-Eks'90 — Technology Exchange, Plovdiv, Bulgaria, 1990.
25. [A. Gelbukh](#). *A language-independent shell of a system of precise morphological analysis and synthesis of natural language texts and a functioning system of this type for the Russian language*. International forum Tex-Eks'90 - Technology Exchange, Plovdiv, Bulgaria, 1990.

### Congresos nacionales in extenso

1. [Alexander Gelbukh](#). *Tendencias recientes en el procesamiento de lenguaje natural*. In: SICOM-2002, Simposium Nacional de Computación. Villahermosa, Tabasco, Mexico, May 29–31, 2002. CD edition: ISBN 970-18-7980-5, 14 pp.
2. [Alexander Gelbukh](#) and [Grigori Sidorov](#). *Recuperación de documentos con comparación semántica suave*. Proc. TAINA-2002, Workshop on Soft Computing at MICAI'2002: 2nd Mexican International Conference on Artificial Intelligence, Merida, Mexico, April 2002, ISBN 970-18-7825-6, p. 253–261.
3. [M. Montes-y-Gómez](#), [A. López-López](#), [A. Gelbukh](#). *El reto de la minería de texto a nivel detalle*. II Encuentro de investigación. Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), Tonantzintla, Puebla, 14–15 de noviembre de 2001, pp. 225–228.
4. [Alexander Gelbukh](#). *Gestión inteligente de documentos*. Proc. Foro: Computación, de la Teoría a la Práctica. ISBN 970-18-6852-8. IPN, Mexico City, August 16–18, 2001.
5. [Sofía Galicia-Haro](#), [A. Gelbukh](#), [I. Bolshakov](#). *Un método de descripción de conocimiento lingüístico y su aplicación al análisis sintáctico del español*. Proc. ENC'99, Segundo Encuentro de Computación, Pachuca, Hidalgo, September 12–15, 1999.
6. [Grigori Sidorov](#), [Alexander Gelbukh](#). *A Hierarchy of Linguistic Programming Objects*. Proc. ENC'99, Segundo Encuentro de Computación, Pachuca, Hidalgo, September 12–15, 1999.



7. [A. Gelbukh](#), I. Bolshakov. *Avances en Análisis Automático de Textos*. Proc. Foro: Computación, de la Teoría a la Práctica. IPN, Mexico City, May 26–28, 1999, ISBN 970-18-3012-1, pp. 151 – 164.
8. [A. Gelbukh](#), S. Galicia-Haro, I. Bolshakov. *Three dictionary-based techniques of disambiguation*. Proc. TAINA-98, Workshop on Artificial Intelligence, 1998, CIC-IPN, Mexico D.F., ISBN 970-18-2057-6, pp. 78–89.
9. S.N. Galicia-Haro, [A.F. Gelbukh](#), I.A. Bolshakov. *Syntactical government pattern dictionaries in language teaching and automatic text processing*. Proc. COPEI-97, Congreso Nacional sobre Educación en Ingeniería y Desarrollo Sustentable, November 26–29, 1997, Morelia, Mexico.
10. G.I. Kostytchev, [A.F. Gelbukh](#). *Neural ensembles and neural network technology in development of conceptual thought of engineers*. Proc. COPEI-97, Congreso Nacional sobre Educación en Ingeniería y Desarrollo Sustentable, November 26–29, 1997, Morelia, México.
11. [A. Gelbukh](#). *A simple shell of a system of precise morphological analysis and synthesis system for natural language texts* (in Russian: [Простая оболочка системы точного морфологического анализа и синтеза текстов на естественном языке](#)). Proc. Conf. Usage of PC Software for office automatization, USSR Academy of Sciences and NPO CPS, Kalinin, Russia, 1990.
12. [A. Gelbukh](#). *Morphological analysis/synthesis and spellchecking of Russian texts* (In Russian: [Морфоанализ/синтез и проверка русских текстов](#)). Proc. 1st Annual All-Union Conf. of SUUG, Moscow, 1990.

### Artículos en congresos selectos actualmente no disponibles en línea

1. George Adelson-Velsky, [Alexander Gelbukh](#), Eugene Levner. *On Project Scheduling with AND/OR Precedence Constraints*. 2<sup>nd</sup> Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2005), New York, USA, July 18–21, 2005, pp. 597–606.
2. George Adelson-Velsky, Eugene Levner, [Alexander Gelbukh](#). *Analysis of Extremal Problems on Grammars, Hypergraphs, and AND-OR Graphs, Based On Generalized Bellman Equations*. IASTED International Conference on Advances in Computer Science and Technology (ACST-2004), ISBN 0-88986-437-3, ISSN 1482-7905, USA, 2004, pp. 431–806 ([link to abstract](#)).
3. [Alexander Gelbukh](#), [Grigori Sidorov](#). *Analizador Morfológico Disponible: un Recurso Importante para PLN en Español*. In: Guillermo De Ita Luna, Olac Fuentes Chávez, Mauricio Osorio Galindo (eds.). Workshops on Artificial Intelligence. IBERAMIA 2004. ISBN 968-863-786-6, Mexico, 2006, p. 209–216.

4. П. Макагонов, М. Александров, А. Гельбух. Формулы проверки подобия слов с обучением на примерах: построение и применение (Formulae for checking the similarity of words with training on examples: building and use (in Russian)). Труды международной конференции «Корпусная лингвистика–2004» (Corpus Linguistics 2004), Издательство Санкт-Петербургского университета, 2004, pp. 239–255.
  5. Igor A. Bolshakov, [Alexander Gelbukh](#). *A Very Large Dictionary with Paradigmatic, Syntagmatic, and Paronymic Links between Entries*. International Workshop on Enhancing and Using Electronic Dictionaries at International Conference on Computational Linguistics COLING 2004, Geneva, Switzerland, August 2004, pp. 54–57.
  6. Tania Lugo-Garcia, [Alexander Gelbukh](#), [Grigori Sidorov](#). *Unsupervised Learning of Word Combinations for Syntactic Disambiguation*. Workshop on Human Language Technologies at the ENC-2004, 5th Mexican International Conference on Computer Science. Avances en la Ciencia de la Computación, ISBN 970-692-170-2, pp. 311–318.
  7. S. Galicia Haro, [Alexander Gelbukh](#), I. A. Bolshakov. *Obtención automática de información sintáctica para un diccionario de patrones de manejo para el lenguaje español*. In: Nieves R. Brisaboa (Ed.) *Ingeniería del Software en la Década del 2000*, IX Jornadas Iberoamericanas de Informática. Cartagena de Indias, Colombia, 11–15 Agosto, 2003, ISBN 84-9602307-9, AECI, pp. 181–190.
  8. Antonio Zárate, Rodolfo Pazos, [Alexander Gelbukh](#). *Las ontologías como un medio de hacer portable una interfaz en lenguaje natural a bases de datos*. In: Nieves R. Brisaboa (Ed.) *Ingeniería del Software en la Década del 2000*, IX Jornadas Iberoamericanas de Informática. Cartagena de Indias, Colombia, 11–15 Agosto, 2003, ISBN 84-9602307-9, AECI, pp. 237–250.
  9. [Alexander Gelbukh](#), [Sang Yong Han](#), [Grigori Sidorov](#). *Experiments on compressing boolean inverted files by document ordering*. Juan Luis Días de León Santiago *et al.* (eds.), *Avances en: Ciencias de la Computación (selected papers of CIC-2003, XII Congreso Internacional de Computación)*, ISBN 970-36-0098-0, p. 181–185.
  10. [Alexander Gelbukh](#), [Grigori Sidorov](#), L. Chanona Hernández. *Automatic measuring of semantic distances between word senses in a Spanish explanatory Dictionary*. [CST 2003](#), IASTED International Conference on Computer Science and Technology, Cancun, Mexico, May 19–21 2003, ACTA Press, ISBN 0-88986-349-0, 2003, pp. 399–404.
- Revised version:
- [Alexander Gelbukh](#), [Grigori Sidorov](#), L. Chanona-Hernández. *Automatic calculation of similarity of word senses of a word in explanatory dictionaries and its applications*.

- Technical Report, N 184, CIC-IPN, Serie azul, October 2003, ISBN 970-18-2916-6, 10 pp.
11. Francisco Velásquez, [Alexander Gelbukh](#), [Grigori Sidorov](#). *System for automatic analysis and generation of Spanish words*. J.H. Sossa Azuela *et al.* (Eds.) Avances en Ciencias de la Computación e Ingeniería de Cómputo. Proc. CIC'2002, XI Congreso Internacional de Computación, November 2002, CIC-IPN, ISBN 970-18-8590-2, ISBN 970-18-8591-0, Mexico, v. II, p. 343–347.
  12. Yoel Ledo Mezquita, [Grigori Sidorov](#), [Alexander Gelbukh](#). *Herramienta para la desambiguación semiautomática de sentidos de palabras en Español*. J.H. Sossa Azuela *et al.* (Eds.) Avances en Ciencias de la Computación e Ingeniería de Cómputo. Proc. CIC'2002, XI Congreso Internacional de Computación, November 2002, CIC-IPN, ISBN 970-18-8590-2, ISBN 970-18-8591-0, Mexico, v. II, p. 343–347.
  13. Yoel Ledo Mezquita, [Grigori Sidorov](#), [Alexander Gelbukh](#), Caridad Anías Calderón. *Búsqueda inteligente en bibliotecas digitales*. In: Tópicos Avanzados de Minería de Datos y Sistemas de Información, Proc. of 3<sup>er</sup> Taller Internacional de Sistemas de Información and 4<sup>o</sup> Taller Internacional de Minería de Datos, CIC, IPN, October 1–3, 2002. Vol. 1., CD edition: ISBN 970-18-8545-7; complete book: ISBN 970-18-8546-5.
  14. S.N. Galicia-Haro, [Alexander Gelbukh](#), I.A. Bolshakov. *Automatic acquisition of syntactic valence realizations for Spanish verbs*. J.H. Sossa Azuela *et al.* (Eds.) Avances en Ciencias de la Computación e Ingeniería de Cómputo. Proc. CIC'2002, XI Congreso Internacional de Computación, November 2002, CIC-IPN, ISBN 970-18-8590-2, ISBN 970-18-8591-0, Mexico, v. II, p. 255–266.
  15. J. Antonio Zárate M., Rodolfo A. Pazos R., [Alexander Gelbukh](#), Joaquín Pérez O. *Interfaz en lenguaje natural para usuarios de bases de datos en Internet*. Proc. IDEAS-2002: 5<sup>o</sup> Workshop Iberoamericano de Ingeniería de Requisitos y Ambientes Software, La Habana, Cuba, April 23–26, 2002.
  16. S.N. Galicia Haro, [A. Gelbukh](#), I.A. Bolshakov. *Compilación de un corpus de textos en el español mexicano con etiquetado sintáctico*. CIC-2001, Congreso Internacional de Computación, 14–16 de noviembre de 2001, ISBN 970-18-7054-9, pp. 228–238.
  17. I.A. Bolshakov, [A. Gelbukh](#). *Segmentación de texto en párrafos basada en los enlaces sintácticos y semánticos*. CIC-2001, Congreso Internacional de Computación, 14–16 de noviembre de 2001, ISBN 970-18-7054-9.
  18. [Manuel Montes y Gómez](#), [Alexander Gelbukh](#), [Aurelio López López](#). *Detección de los patrones raros en un conjunto de datos semiestructurados*. CIC-2001, Congreso Internacional de Computación, 14–16 de noviembre de 2001, ISBN 970-18-7054-9.
  19. S.N. Galicia Haro, [A.F. Gelbukh](#), I.A. Bolshakov. *Obtención semiautomática de patrones de manejo para el lenguaje español*. SLPLT-2, the 2nd International Workshop on Spanish Language Processing and Language Technologies, Jaén, Spain,

September 14–15, 2001, ISBN 84-8454-095-2, Editorial Club Universitario, pp. 147–151.

20. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. *Discovering Association Rules in Semi-structured Data Sets*. Proc. Workshop on Knowledge Discovery from Distributed, Dynamic, Heterogeneous, Autonomous Data and Knowledge Sources at 17<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'2001), Seattle, USA, 2001.
21. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. *Discovering Ephemeral Associations among News Topics*. Proc. ATEM-2001 workshop at 17<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'2001), Seattle, USA, 2001.
22. Alexander Gelbukh, Grigori Sidorov. *Algorithm of word sense disambiguation in an explanatory dictionary*. Proc. COMPLEX-2001, Workshop on Computational Lexicography, Birmingham, Great Britain, June 28–30, 2001, pp. 35–40.  
Reprinted as:
  - Alexander Gelbukh, Grigori Sidorov. *Algorithm of word sense disambiguation in an explanatory dictionary*. Technical report, Serie Azul, N 89, April 2001. CIC, IPN, ISBN 970-18-6468-9, 7 pp.
23. Alexander Gelbukh, Grigori Sidorov. *Sistema inteligente de recuperación de textos políticos de la base de datos documental del Senado de la República Mexicana*. Proc. CIC-2000, Congreso Internacional de Computación, November 15–17, 2000, CIC, IPN, Mexico D.F., ISBN 970-18-5540-X, pp. 315–321.
24. I.A. Bolshakov, A.F. Gelbukh. *Structuring Spanish personal pronouns for automatic text analysis*. Proc. CIC-2000, Congreso Internacional de Computación, November 15–17, 2000, CIC, IPN, Mexico D.F., ISBN 970-18-5540-X, pp. 284–295.
25. Alexander Gelbukh. *Computational processing of natural language: Tasks, problems and solutions*. **Keynote talk**. Proc. CIC-2000, Congreso Internacional de Computación, November 15–17, 2000, CIC, IPN, Mexico D.F., ISBN 970-18-5540-X, pp. 108–117.
26. Alexander Gelbukh, Adolfo Guzmán-Arenas. *Biblioteca digital virtual con índice jerárquico por conceptos*. VII Jornadas Iberoamericanas de Informática (organized by CYTED, Subprogram VII). Cartagena de Indias, Colombia, August 30 to September 1, 2000.
27. Sofía Galicia-Haro, Igor Bolshakov, Alexander Gelbukh. *Un modelo de descripción de la estructura de las valencias de verbos españoles para el análisis automático de textos*. Proc. MICAI-2000, 1<sup>st</sup> Mexican International Conference on Artificial Intelligence (Spanish section), ISBN 970-18-4465-3, Acapulco, Mexico, April 2000, pp. 393–404.

28. [Alexander F. Gelbukh](#). *Approximate Initial Substring Search under Access Locality Requirements*. Proc. CIC-99, Symposium Internacional de Computación, November 15–19, 1999, CIC, IPN, Mexico D.F., ISBN 970-18-3697-9, pp. 367–381.
29. Igor A. Bolshakov and [Alexander F. Gelbukh](#). *Enriquecimiento de la base de combinaciones de palabras por medio de un tesoro jerárquico*. Proc. CIC-99, Symposium Internacional de Computación, November 15–19, 1999, CIC, IPN, Mexico City, ISBN 970-18-3697-9, pp. 352–359.
30. Sofía N. Galicia-Haro, I. A. Bolshakov, [A. F. Gelbukh](#). *Aplicación del formalismo Meaning  $\Leftrightarrow$  Text Theory al análisis de textos en español*. Proc. CIC-99, Symposium Internacional de Computación, November 15–19, 1999, CIC, IPN, Mexico D.F., ISBN 970-18-3697-9, pp. 342–351.
31. Igor A. Bolshakov y [Alexander F. Gelbukh](#). *Un sistema computacional para la enseñanza de los idiomas extranjeros*. I Symposium Internacional “Informática y Telecomunicaciones en la Educación”. September 22–24, 1999, E.S.I.Q.I.E., IPN, Mexico, Vol. 1, pp. 59–65.  
[simposium.esiqie.ipn.mx](http://simposium.esiqie.ipn.mx)
32. [G.O. Sidorov](#), [A.F. Gelbukh](#). *A method of detection and resolution of hidden anaphora (in extenso in Russian, with abstract in English)*. Proc. Annual International Conf. on Applied Linguistics Dialogue-99, May 30 – June 5, 1999, Moscow, Russia, pp. 288–297.
33. I.A. Bolshakov, [A.F. Gelbukh](#). *Is the Meaning – Text Model Outdated? (in extenso in Russian, with abstract in English)*. Proc. Annual International Conf. on Applied Linguistics Dialogue-99, May 30 – June 5, 1999, Moscow, Russia, pp. 15–24.
34. S.N. Galicia-Haro, [A.F. Gelbukh](#). *A combinatorial dictionary of Spanish: the first steps (in extenso in Russian, with abstract in English)*. Proc. Annual International Conf. on Applied Linguistics Dialogue-97, Moscow, RIAI, 1997, pp. 68–70.
35. I.A. Bolshakov, [A.F. Gelbukh](#). *Project of CIC on Extraction of Facts from Spanish Texts: An Application of Russian Experience (in extenso in Russian, with abstract in English)*. Proc. Annual International Conf. on Applied Linguistics Dialogue-97, Moscow, RIAI, 1997, pp. 44–46.
36. I.A. Bolshakov, [A.F. Gelbukh](#), S.N. Galicia-Haro. *Patrones de manejo sintáctico para verbos comunes en español*. Proc. CIC-97, Nuevas Aplicaciones e Innovaciones Tecnológicas en Computación, Symposium Internacional de Computación, November 12–14, 1997, CIC, IPN, Mexico City, Mexico, pp. 367–371.

Reprinted as:

- Galicia Haro, Sofía N., [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Patrones de manejo sintáctico para verbos comunes del español*. In: A. de Albornoz Bueno *et al.* (eds.),

Selected Works 1997–1998, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 132–136.

37. S.N. Galicia-Haro, [A.F. Gelbukh](#), I. Bolshakov. *The “Understanding” of Spanish Texts: CIC Language Understanding Project*. Proc. International Workshop on Spanish Language Processing, Santa Fe, New Mexico, USA, July 21–22, 1997.

Revised version:

- Galicia Haro, Sofía N., [Alexander F. Gelbukh](#), Igor A. Bolshakov. *The structure of a Spanish linguistic processor*. In: A. de Albornoz Bueno *et al.* (eds.), Selected Works 1997–1998, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 137–140.



# 500 publicaciones selectas

## Revistas indexadas con el factor de impacto JCR

Nota: Hay una publicación JCR más en las reseñas. Hay seis publicaciones más que salieron en revistas que antes fueron indexadas pero no en el año en el cual salió la publicación.

1. [Soujanya Poria](#), [Navonil Majumder](#), [Devamanyu Hazarika](#), [Deepanway Ghosal](#), [Rishabh Bhardwaj](#), [Samson Yu Bai Jian](#), [Pengfei Hong](#), Romila Ghosh, Abhinaba Roy, [Niyati Chhaya](#), [Alexander Gelbukh](#), [Rada Mihalcea](#). *Recognizing Emotion Cause in Conversations*. Cognitive Computation, ISSN 1866-9956. Accepted.  
JCR impact factor 2020: 5.418 (Q1).
2. [Segun Taofeek Aroyehun](#), Jason Angel, [Navonil Majumder](#), [Alexander Gelbukh](#), [Amir Hussain](#). *Leveraging label hierarchy using transfer and multi-task learning: A case study on patent classification*. Neurocomputing, ISSN 0925-2312, 2021; doi: [10.1016/j.neucom.2021.07.057](#).  
JCR impact factor 2020: 5.719 (Q1).
3. [Snehlata Sheoran](#), [Neetu Mittal](#), [Alexander Gelbukh](#). *Improved Change Detection in Remote Sensed Images by Artificial Intelligence Techniques*. Journal of the Indian Society of Remote Sensing, ISSN 0255-660X, 2021; doi: [10.1007/s12524-021-01374-x](#).  
JCR impact factor 2020: 1.563 (Q4).
4. Lal Khan, Ammar Amjad, Noman Ashraf, Hsien-Tsung Chang, [Alexander Gelbukh](#). *Urdu Sentiment Analysis with Deep Learning Methods*. IEEE Access, ISSN 2169-3536, Vol. 9, 2021, pp. 97803–97812; doi: [10.1109/ACCESS.2021.3093078](#).  
JCR impact factor 2020: 3.367 (Q2).
5. Abdullah Faiz Ur Rahman Khilji, Riyanka Manna, Sahinur Rahman Laskar, [Partha Pakray](#), [Dipankar Das](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *CookingQA: Answering Questions and Recommending Recipes Based on Ingredients*. Arabian Journal for Science and Engineering, ISSN 0377-9211, 2021; doi: [10.1007/s13369-020-05236-5](#).  
JCR impact factor 2019: 1.711 (Q3).



6. Amarnath Pathak, Riyanka Manna, Partha Pakray, Dipankar Das, Alexander Gelbukh, Sivaji Bandyopadhyay. *Scientific Text Entailment and a Textual-Entailment-based framework for cooking domain question answering*. *Sādhanā*, ISSN 0256-2499, vol. 46, 2021, article 24, pp. 1–19; doi: [10.1007/s12046-021-01557-9](https://doi.org/10.1007/s12046-021-01557-9).  
JCR impact factor 2019: 0.849 (Q4).
7. Sergio Jimenez, Youlin Avila, George Dueñas, Alexander Gelbukh. *Automatic prediction of citability of scientific articles by stylometry of their titles and abstracts*. *Scientometrics*, ISSN 0138-9130, vol. 125, no. 3, 2020, pp. 3187–3232; doi: [10.1007/s11192-020-03526-1](https://doi.org/10.1007/s11192-020-03526-1).  
JCR impact factor 2019: 2.867 (Q2).
8. Navonil Majumder, Rishabh Bharadwaj, Soujanya Poria, Amir Zadeh, Alexander Gelbukh, Amir Hussain, Louis-Philippe Morency. *Improving Aspect-Level Sentiment Analysis with Aspect Extraction*. *Neural Computing and Applications*, 2020; doi: [10.1007/s00521-020-05287-7](https://doi.org/10.1007/s00521-020-05287-7).  
JCR impact factor 2018: 4.664 (Q1).
9. Maaz Amjad, Grigori Sidorov, Alisa Zhila, Helena Gomez-Adorno, Ilia Voronkov, Alexander Gelbukh. *“Bend The Truth”: Benchmark Dataset for Fake News Detection in Urdu Language and its Evaluation*. *Journal of Intelligent & Fuzzy Systems*, ISSN 1064-1246, 2020, vol. 39, no. 2, pp. 2457–2469; doi: [10.3233/JIFS-179905](https://doi.org/10.3233/JIFS-179905).  
JCR impact factor 2018: 1.637 (Q3).
10. Olga Kolesnikova, Alexander Gelbukh. *A study of lexical function detection with word2vec and supervised machine learning*. *Journal of Intelligent & Fuzzy Systems*, ISSN 1064-1246, 2020, vol. 39, no. 2, pp. 1993–2001; doi: [10.3233/JIFS-179866](https://doi.org/10.3233/JIFS-179866).  
JCR impact factor 2018: 1.637 (Q3).
11. Sandeep Kumar Dash, Shantanu Acharya, Partha Pakray, Ranjita Das, Alexander Gelbukh. *Topic-Based Image Caption Generation*. *Arabian Journal for Science and Engineering*, 45, vol. 2020, pp. 3025–3034; doi: [10.1007/s13369-019-04262-2](https://doi.org/10.1007/s13369-019-04262-2) (published in 2019).  
JCR impact factor 2018: 1.518 (Q3).
12. Yash Mehta, Navonil Majumder, Alexander Gelbukh, Erik Cambria. *Recent trends in deep learning based personality detection*. *Artificial Intelligence Review*, ISSN 0269-2821, vol. 53, 2020, pp. 2313–2339; doi: [10.1007/s10462-019-09770-z](https://doi.org/10.1007/s10462-019-09770-z) (published in 2019).  
JCR impact factor 2018: 5.095 (Q1).
13. Snehlata Sheoran, Neetu Mittal, Alexander Gelbukh. *Analysis on application of swarm-based techniques in processing remote sensed data*. *Earth Science Informatics*, vol. 13, 2020, pp. 97–113; doi: [10.1007/s12145-019-00417-9](https://doi.org/10.1007/s12145-019-00417-9) (published in 2019).  
JCR impact factor 2018: 1.525 (Q3).

14. [Navonil Majumder](#), [Soujanya Poria](#), Haiyun Peng, [Niyati Chhaya](#), [Erik Cambria](#), [Alexander Gelbukh](#). *Sentiment and Sarcasm Classification with Multitask Learning*. IEEE Intelligent Systems, vol. 34, no. 3, 2019, pp. 38–43; doi: [10.1109/MIS.2019.2904691](#).  
JCR impact factor 2018: 4.464 (Q1).
15. Helena Gómez-Adorno, Roddy Fuentes-Alba, Iliia Markov, [Grigori Sidorov](#), [Alexander Gelbukh](#). *A convolutional neural network approach for gender and language variety identification*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 36, no. 5, 2019, pp. 4845–4855; doi: [10.3233/JIFS-179032](#).  
JCR impact factor 2018: 1.637 (Q3).
16. Carolina Fócil-Arias, [Grigori Sidorov](#), [Alexander Gelbukh](#). *Medical events extraction to analyze clinical records with conditional random fields*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 36, no. 5, 2019, pp. 4633–4643; doi: [10.3233/JIFS-179014](#).  
JCR impact factor 2018: 1.637 (Q3).
17. Sandeep Kumar Dash, Saurav Saha, [Partha Pakray](#), [Alexander Gelbukh](#). *Generating image captions through multimodal embedding*. Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246, vol. 36, no. 5, 2019, pp. 4787–4796; doi: [10.3233/JIFS-179027](#).  
JCR impact factor 2018: 1.637 (Q3).
18. Rohini Basak, [Sudip Kumar Naskar](#), [Alexander Gelbukh](#). *Short-answer grading using textual entailment*. Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246, vol. 36, no. 5, 2019, pp. 4909–4919; doi: [10.3233/JIFS-179038](#).  
JCR impact factor 2018: 1.637 (Q3).
19. Amarnath Pathak, [Partha Pakray](#), [Alexander Gelbukh](#). *Binary vector transformation of math formula for mathematical information retrieval*. Journal of Intelligent & Fuzzy Systems, ISSN: 1064-1246, vol. 36, no. 5, 2019, pp. 4685–4695; doi: [10.3233/JIFS-179018](#).  
JCR impact factor 2018: 1.637 (Q3).
20. [Sergio Jimenez](#), [Fabio A. Gonzalez](#), [Alexander Gelbukh](#), [George Dueñas](#). *word2set: WordNet-Based Word Representation Rivaling Neural Word Embedding for Lexical Similarity and Sentiment Analysis*. IEEE Computational Intelligence Magazine, ISSN: 1556-603X, vol. 14, issue 2, 2019, pp. 41–53, doi: [10.1109/MCI.2019.2901085](#).  
JCR impact factor 2018: 5.857 (Q1).
21. [Soujanya Poria](#), [Navonil Majumder](#), [Devamanyu Hazarika](#), [Erik Cambria](#), [Alexander Gelbukh](#), [Amir Hussain](#). *Multimodal Sentiment Analysis: Addressing Key Issues and Setting Up the Baselines*. IEEE Intelligent Systems, ISSN: 1541-1672, vol. 33, issue 6, November–December 2018, pp. 17–25, doi: [10.1109/MIS.2018.2882362](#).

- JCR impact factor 2018: 4.464 (Q1).
22. Navonil Majumder, [Devamanyu Hazarika](#), [Alexander Gelbukh](#), [Erik Cambria](#), [Soujanya Poria](#). *Multimodal Sentiment Analysis using Hierarchical Fusion with Context Modeling*. Knowledge-Based Systems, ISSN: 0950-7051, vol. 161, 2018, pp. 124–133; doi: [10.1016/j.knosys.2018.07.041](#).
- JCR impact factor 2018: 5.101 (Q1).
23. Hiram Calvo, Pabel Carrillo-Mendoza and [Alexander Gelbukh](#). *On redundancy in multi-document summarization*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 34, no. 5, pp. 3245-3255, 2018, doi: [10.3233/JIFS-169507](#).
- JCR impact factor 2018: 1.637 (Q3).
24. [Sergio Jimenez](#), [Silviu-Petru Cucerzan](#), [Fabio A. Gonzalez](#), [Alexander Gelbukh](#), [George Dueñas](#). *BM25-CTF: Improving TF and IDF factors in BM25 by using collection term frequencies*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 34, no. 5, pp. 2887-2899, 2018, doi: [10.3233/JIFS-169475](#).
- JCR impact factor 2018: 1.637 (Q3).
25. Carolina Fócil-Arias, [Grigori Sidorov](#), [Alexander Gelbukh](#), Fernando Arce. *Extracting medical events from clinical records using conditional random fields and parameter tuning for hidden Markov models*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 34, no. 5, pp. 2935-2947, 2018, doi: [10.3233/JIFS-169479](#).
- JCR impact factor 2018: 1.637 (Q3).
26. Francisco Javier Garcia-Lopez, [Ildar Batyrshin](#), [Alexander Gelbukh](#). *Analysis of relationships between tweets and stock market trends*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 34, no. 5, pp. 3337-3347, 2018, doi: [10.3233/JIFS-169515](#).
- JCR impact factor 2018: 1.637 (Q3).
27. Rohini Basak, [Sudip Kumar Naskar](#), [Alexander Gelbukh](#). *A simple hybrid approach to recognizing textual entailment*. Journal of Intelligent & Fuzzy Systems, ISSN 1064-1246, vol. 34, no. 5, pp. 2873-2885, 2018, doi: [10.3233/JIFS-169474](#).
- JCR impact factor 2018: 1.637 (Q3).
28. Miguel A. Sanchez-Perez, [Alexander Gelbukh](#), [Grigori Sidorov](#), Helena Gómez-Adorno. *Plagiarism Detection with Genetic-Based Parameter Tuning*. International Journal of Pattern Recognition and Artificial Intelligence, ISSN 0218-0014, Vol. 32, No. 1, 2018, p. 1860006-1–1860006-23, doi: [10.1142/S0218001418600066](#).
- JCR impact factor 2017: 1.029 (Q3) (WoS document type: article; proceedings paper).
29. [Erik Cambria](#), [Soujanya Poria](#), [Alexander Gelbukh](#), [Mike Thelwall](#). *Sentiment Analysis Is a Big Suitcase*. *IEEE Intelligent Systems*, ISSN 1541-1672, Vol. 32, No. 6, 2017, pp. 74–80, doi: [10.1109/MIS.2017.4531228](#).
- JCR impact factor 2015: 3.532 (Q1), 2016: 2.374 (Q2).

30. Ildar Batyrshin, Fernando Monroy-Tenorio, Alexander Gelbukh, Luis Alfonso Villa-Vargas, Valery Solovyev, Nailya Kubysheva. *Bipolar Rating Scales: A Survey and Novel Correlation Measures Based on Nonlinear Bipolar Scoring Functions*. Acta Polytechnica Hungarica, ISSN 1785-8860, Vol. 14, No. 3, 2017, pp. 33–57, doi: [10.12700/APH.14.3.2017.3.3](https://doi.org/10.12700/APH.14.3.2017.3.3).  
JCR impact factor 2017: 0.909 (Q3).
31. Obdulia Pichardo-Lagunas, Grigori Sidorov, Alexander Gelbukh, Nareli Cruz-Cortés, Alicia Martínez-Rebollar. *Automatic Detection of Semantic Primitives with Bio-inspired, Multi-Objective, Weighting Algorithms*. Acta Polytechnica Hungarica, ISSN 1785-8860, Vol. 14, No. 3, 2017, pp. 113–128, doi: [10.12700/APH.14.3.2017.3.7](https://doi.org/10.12700/APH.14.3.2017.3.7).  
JCR impact factor 2017: 0.909 (Q3).
32. Navonil Majumder, Soujanya Poria, Alexander Gelbukh, Erik Cambria. *Deep Learning-Based Document Modeling for Personality Detection from Text*. IEEE Intelligent Systems, vol. 32, issue 2, 2017, ISSN 1541-1672, pp. 74–79, doi: [10.1109/MIS.2017.23](https://doi.org/10.1109/MIS.2017.23).  
JCR impact factor 2015: 3.532 (Q1), 2016: 2.374 (Q2).  
🏆 *Highly cited paper*, según ISI JCR Web of Science: dentro del 1% de los artículos más citados sobre la ciencia de la computación, publicados en este año.
33. Ángel Hernández-Castañeda, Hiram Calvo, Alexander Gelbukh, Jorge J. García Flores. *Cross-domain deception detection using support vector networks*. Soft Computing, ISSN: 1432-7643, Vol. 21, No. 3, 2017, pp. 585–595, doi: [10.1007/s00500-016-2409-2](https://doi.org/10.1007/s00500-016-2409-2).  
JCR impact factor 2016: 2.472 (Q2).
34. Helena Gómez-Adorno, Grigori Sidorov, David Pinto, Darnes Vilariño Ayala, Alexander Gelbukh. *Automatic Authorship Detection using Textual Patterns Extracted from Integrated Syntactic Graphs*. Special issue: *Advances in Artificial Intelligence: Selected Papers from MICA I 2013, 2014 and 2015—12th, 13th and 14th Mexican International Conferences on Artificial Intelligence*. Sensors, eISSN: 1424-8220, Vol. 16, No. 9, 2016, p. 1374 (19 pp.), doi: [10.3390/s16091374](https://doi.org/10.3390/s16091374).  
JCR impact factor 2016: 2.677 (Q1).
35. Sergio Jiménez, Fabio A. González, Alexander Gelbukh. *Mathematical properties of soft cardinality: Enhancing Jaccard, Dice and cosine similarity measures with element-wise distance*. Information Sciences, ISSN: 0020-0255, Vol. 367, 2016, pp. 373–389, doi: [10.1016/j.ins.2016.06.012](https://doi.org/10.1016/j.ins.2016.06.012).  
JCR impact factor 2016: 4.832 (Q1).
36. Soujanya Poria, Erik Cambria, Alexander Gelbukh. *Aspect extraction for opinion mining with a deep convolutional neural network*. Knowledge-Based Systems, ISSN: 0950-7051, Vol. 108, 2016, pp. 42–49, doi: [10.1016/j.knosys.2016.06.009](https://doi.org/10.1016/j.knosys.2016.06.009).  
JCR impact factor 2016: 4.529 (Q1).

🏆 *Highly cited paper*, según ISI JCR Web of Science: dentro del 1% de los artículos más citados sobre la ciencia de la computación, publicados en este año.

37. Kia Dashtipour, [Soujanya Poria](#), [Amir Hussain](#), [Erik Cambria](#), Ahmad Y. A. Hawalah, [Alexander Gelbukh](#), [Qiang Zhou](#). *Multilingual Sentiment Analysis: State of the Art and Independent Comparison of Techniques*. *Cognitive Computation*, ISSN: 1866-9956, Vol. 8, Issue 4, 2016, pp. 757–771, doi: [10.1007/s12559-016-9415-7](https://doi.org/10.1007/s12559-016-9415-7).

JCR impact factor 2016: 3.441 (Q1).

- Kia Dashtipour, [Soujanya Poria](#), [Amir Hussain](#), [Erik Cambria](#), Ahmad Y. A. Hawalah, [Alexander Gelbukh](#), [Qiang Zhou](#). *Erratum to: Multilingual Sentiment Analysis: State of the Art and Independent Comparison of Techniques*. *Cognitive Computation*, ISSN: 1866-9956, Vol. 8, Issue 4, 2016, pp. 772–775, doi: [10.1007/s12559-016-9421-9](https://doi.org/10.1007/s12559-016-9421-9).
38. Alisa Zhila, [Alexander Gelbukh](#). *Open Information Extraction from Real Internet Texts in Spanish Using Constraints over Part-Of-Speech Sequences: Problems of the Method, Their Causes, and Ways for Improvement*. “*Revista Signos. Estudios de Lingüística*”, ISSN 0718-0934, Vol. 49, No. 90, March, 2016, pp. 119–142, doi: [10.4067/S0718-09342016000100006](https://doi.org/10.4067/S0718-09342016000100006).

SSCI: JCR impact factor 2016: 0.231 (Q4).

39. [Soujanya Poria](#), [Erik Cambria](#), [Alexander Gelbukh](#), Federica Bisio, [Amir Hussain](#). *Sentiment Data Flow Analysis by Means of Dynamic Linguistic Patterns*. *IEEE Computational Intelligence Magazine*, ISSN 1556-603X, Vol. 10, No. 4, 2015, pp. 26–36, doi: [10.1109/MCI.2015.2471215](https://doi.org/10.1109/MCI.2015.2471215).

SSCI: JCR impact factor 2016: 6.343 (Q1).

40. [Basant Agarwal](#), [Soujanya Poria](#), [Namita Mittal](#), [Alexander Gelbukh](#), [Amir Hussain](#). *Concept-Level Sentiment Analysis with Dependency-Based Semantic Parsing: A Novel Approach*. *Cognitive Computation*, ISSN 1866-9956, Vol. 7, No. 4, 2015, 487–499, doi: [10.1007/s12559-014-9316-6](https://doi.org/10.1007/s12559-014-9316-6).

JCR impact factor 2015: 1.933 (Q2), 2016: 3.441 (Q1).

41. [Soujanya Poria](#), [Alexander Gelbukh](#), [Erik Cambria](#), [Amir Hussain](#), [Guang-Bin Huang](#). *EmoSenticSpace: A Novel Framework for Affective Common-Sense Reasoning*. *Knowledge-Based Systems*, vol. 69, 2014, ISSN 0950-7051, pp. 108–123, doi: [10.1016/j.knosys.2014.06.011](https://doi.org/10.1016/j.knosys.2014.06.011).

SCI: JCR impact factor 2014: 3.424 (Q1).

42. Sabino Miranda, [Alexander Gelbukh](#), [Grigori Sidorov](#). *Generating summaries by means of synthesis of conceptual graphs* (In Spanish: *Generación de resúmenes por medio de síntesis de grafos conceptuales*). “*Revista Signos. Estudios de Lingüística*”, ISSN 0718-0934, Vol. 47, No. 86, December, 2014, pp. 463–485, doi: [10.4067/S0718-09342014000300006](https://doi.org/10.4067/S0718-09342014000300006).

SSCI: JCR impact factor 2014: 0.273 (Q4).

43. Obdulia Pichardo Lagunas, [Grigori Sidorov](#), Nareli Cruz Cortés, [Alexander Gelbukh](#). *Automatic Detection of Semantics Primitives in Explicative Dictionaries with Bio-inspired Algorithms* (In Spanish: *Detección automática de primitivas semánticas en diccionarios explicativos con algoritmos bioinspirados*). *Onomázein*, ISSN 0717-1285, vol. 29, 2014, pp. 104–117, doi: [10.7764/onomazein.29.1](https://doi.org/10.7764/onomazein.29.1).  
SSCI: JCR impact factor 2014: 0.123 (Q4).
44. [Grigori Sidorov](#), Francisco Velasquez, [Efstathios Stamatatos](#), [Alexander Gelbukh](#), Liliana Chanona-Hernández. *Syntactic N-grams as machine learning features for natural language processing*. *Expert Systems with Applications*, ISSN 0957-4174, vol. 41, issue 3, 2014, pp. 853–860, doi: [10.1016/j.eswa.2013.08.015](https://doi.org/10.1016/j.eswa.2013.08.015).  
SCIE: JCR impact factor 2014: 2.240 (Q1).
45. [Soujanya Poria](#), [Alexander Gelbukh](#), [Amir Hussain](#), [Newton Howard](#), [Dipankar Das](#), [Sivaji Bandyopadhyay](#). *Enhanced SenticNet with Affective Labels for Concept-based Opinion Mining*. *IEEE Intelligent Systems*, ISSN 1541-1672, vol. 28, issue 2, 2013, pp. 31–38, doi:[10.1109/MIS.2013.4](https://doi.org/10.1109/MIS.2013.4).  
SCI: JCR impact factor 2013: 1.920 (Q2), 2012: 1.930 (Q1).
46. Sergio Jimenez Vargas, [Alexander Gelbukh](#). *Baselines for Natural Language Processing Tasks Based on Soft Cardinality Spectra*. *Applied and Computational Mathematics*, ISSN 1683-3511, Special Issue on Applied Artificial Intelligence and Soft Computing, Vol. 11, No. 2, 2012, pp. 180–199.  
SCIE: JCR impact factor 2012: 0.750 (Q2).
47. Olga Kolesnikova, [Alexander Gelbukh](#). *Semantic relations between collocations: A Spanish case study (Relaciones semánticas entre las colocaciones: Un estudio de caso del español)*. “*Revista Signos. Estudios de Lingüística*”, ISSN 0718-0934, ISSN 0035-0451, Vol. 45, No. 78, pp. 44–59, March, 2012; doi: [10.4067/S0718-09342012000100003](https://doi.org/10.4067/S0718-09342012000100003).  
SSCI: JCR impact factor 2012: 0.055 (Q4).
48. Javier Tejada-Cárcamo, [Hiram Calvo](#), [Alexander Gelbukh](#), Kazuo Hara. *Unsupervised WSD by Finding the Predominant Sense Using Context as a Dynamic Thesaurus*. *Journal of Computer Science and Technology*, ISSN 1000-9000, Vol. 25, No. 5, Springer, September 2010, p. 1030–1039; doi: [10.1007/s11390-010-9385-2](https://doi.org/10.1007/s11390-010-9385-2).  
SCIE: JCR impact factor 2010: 0.656 (Q3).
49. George Adelson-Velsky, [Alexander Gelbukh](#), Eugene Levner. *On Fast Path-Finding Algorithms in AND-OR Graphs*. *Mathematical Problems in Engineering*, ISSN 1024-123X, Hindawi Publishing Corporation, Vol. 8, Num. 4–5, 2002, pp. 283–293, doi: [10.1080/10241230306728](https://doi.org/10.1080/10241230306728).  
SCIE: JCR impact factor 2002: 0.238 (Q3).



50. A.F. Gelbukh. *Исправление орфографических ошибок с помощью перебора, управляемого морфологическим словарем (Spelling Correction with Morphological Dictionary, in Russian)*. *Nauchno-Tekhnicheskaya Informatsiya, Seriya 2 - Informatsionnye Protsessy i Sistemy*, ISSN 0548-0027, ser. 2, vol. 5, pp. 23–30, Moscow, Russia, 1993.  
JCR impact factor 1992: 0.051, 1994: 0.169, 1997: 0.25 (not shown by Clarivate; dropped in Feb 1996).
51. A.F. Gelbukh. *Эффективно реализуемая модель морфологии флективного естественного языка (Efficiently-Realized Model of the Natural-Language Morphology, in Russian)*. *Nauchno-Tekhnicheskaya Informatsiya, Seriya 2 - Informatsionnye Protsessy i Sistemy*, ISSN 0548-0027, ser. 2, vol. 1, Moscow, Russia, 1992, pp. 24–31.  
JCR impact factor 1992: 0.051 (not shown by Clarivate).
52. A.F. Gelbukh. *Минимизация количества обращений к дисковой памяти при словарном морфологическом анализе (Minimizing the Use of Disk Memory during Vocabulary Morphological Analysis, in Russian)*. *Nauchno-Tekhnicheskaya Informatsiya, Seriya 2 - Informatsionnye Protsessy i Sistemy*, ISSN 0548-0027, ser. 2, vol. 6, Moscow, Russia, 1991, pp. 15–21.  
JCR impact factor 1991: 0.233 (not shown by Clarivate).

## Revistas incluidas en el Padrón del CONACyT

53. Jesus Alexander Alvarado Gutiérrez, Alexander Gelbukh, Olga Kolesnikova. *Resolución de anáfora directa basada en conocimiento para pronombres definitivos (Knowledge-Based Direct Anaphora Resolution for Definitive Pronouns)*. *Computación y Sistemas*, ISSN 1405-5546, vol. 25, no. 2, 2021, pp. 329–337; doi: 10.13053/CyS-25-2-3935.
54. Sabur Butt, Noman Ashraf, Muhammad Hammad Fahim Siddiqui, Grigori Sidorov, Alexander Gelbukh. *Transformer-Based Extractive Social Media Question Answering on TweetQA*. *Computación y Sistemas*, ISSN 1405-5546, vol. 25, no. 1, 2021, pp. 23–32; doi: 10.13053/CyS-25-1-3897.
55. Riyanka Manna, Partha Pakray, Dipankar Das, Alexander Gelbukh. *Question-Answering and Recommendation System on Cooking Recipes*. *Computación y Sistemas*, ISSN 1405-5546, vol. 25, no. 1, 2021, pp. 223–235; doi: 10.13053/CyS-25-1-3899.
56. Sabur Butt, Noman Ashraf, Muhammad Hammad Fahim Siddiqui, Grigori Sidorov, Alexander Gelbukh. *Transformer-Based Extractive Social Media Question Answering on TweetQA*. *Computación y Sistemas*, ISSN 1405-5546, vol. 25, no. 1, 2021, pp. 23–32; doi: 10.13053/CyS-25-1-3897.



57. Mubarak Alkhatnai, Hamza Imam Amjad, Maaz Amjad, Alexander Gelbukh. *Methods and Trends of Machine Reading Comprehension in the Arabic Language*. *Computación y Sistemas*, ISSN 1405-5546, vol. 24, no. 4, 2020, pp. 1607–1615; doi: [10.13053/CyS-24-4-3878](https://doi.org/10.13053/CyS-24-4-3878).
58. Iskander Akhmetov, Alexandr Pak, Irina Ualiyeva, Alexander Gelbukh. *Highly Language-Independent Word Lemmatization Using a Machine-Learning Classifier*. *Computación y Sistemas*, ISSN 1405-5546, vol. 24, no. 3, 2020, pp. 1353–1364; doi: [10.13053/CyS-24-3-3775](https://doi.org/10.13053/CyS-24-3-3775).
59. Sandeep Kumar Dash, Y. V. Sureshchandra, Yatharth Mishra, Partha Pakray, Ranjita Das, Alexander Gelbukh. *Multimodal Learning Based Spatial Relation Identification*. *Computación y Sistemas*, ISSN 1405-5546, vol. 24, no. 3, 2020, pp. 1327–1335; doi: [10.13053/CyS-24-3-3773](https://doi.org/10.13053/CyS-24-3-3773).
60. Abdullah Faiz Ur Rahman Khilji, Riyanka Manna, Sahinur Rahman Laskar, Partha Pakray, Dipankar Das, Sivaji Bandyopadhyay, Alexander Gelbukh. *Question Classification and Answer Extraction for Developing a Cooking QA System*. *Computación y Sistemas*, Vol. 24, No. 2, 2020, pp. 921–927, doi: [10.13053/CyS-24-2-3445](https://doi.org/10.13053/CyS-24-2-3445).
61. Olga Kolesnikova, Alexander Gelbukh, Liliana Chanona-Hernández. *Automatic Detection of Semantic Classes of Verb-Noun Collocations*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 24, No. 1, 2020, pp. 141–150, doi: [10.13053/CyS-24-1-3130](https://doi.org/10.13053/CyS-24-1-3130).
62. Olga Kolesnikova, Alexander Gelbukh. *Dictionary and Corpus-Based Study of Lexical Functions in Spanish*. *POLIBITS*, ISSN 2395-8618, vol. 60, 2019, pp. 43–56; doi: [10.17562/PB-60-6](https://doi.org/10.17562/PB-60-6).
63. Amarnath Pathak, Ranjita Das, Partha Pakray, Alexander Gelbukh. *Extracting Context of Math Formulae Contained inside Scientific Documents*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 23, No. 3, 2019, pp. 803–818, doi: [10.13053/CyS-23-3-3246](https://doi.org/10.13053/CyS-23-3-3246).
64. Carlos A. Rodriguez-Diaz, Sergio Jimenez, George Dueñas, Johnatan Estiven Bonilla, Alexander Gelbukh. *Dialectones: Finding Statistically Significant Dialectal Boundaries Using Twitter Data*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 22, No. 4, 2018, pp. 1213–1222, doi: [10.13053/CyS-22-4-3104](https://doi.org/10.13053/CyS-22-4-3104).
65. Amarnath Pathak, Partha Pakray, Alexander Gelbukh. *A Formula Embedding Approach to Math Information Retrieval*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 22, No. 3, 2018, pp. 819–833; doi: [10.13053/CyS-22-3-3015](https://doi.org/10.13053/CyS-22-3-3015).
66. Francisco Viveros-Jiménez, Miguel A. Sanchez-Perez, Helena Gómez-Adorno, Juan-Pablo Posadas-Durán, Grigori Sidorov, Alexander Gelbukh. *Improving the Boilerpipe Algorithm for Boilerplate Removal in News Articles Using HTML Tree Structure*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 22, No. 2, 2018, pp. 483–489; doi: [10.13053/CyS-22-2-2959](https://doi.org/10.13053/CyS-22-2-2959).

67. Alexander Gelbukh. *Inferences for Enrichment of Collocation Databases by Means of Semantic Relations*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 22, No. 1, 2018, pp. 103–117; doi: [10.13053/CyS-22-1-2923](https://doi.org/10.13053/CyS-22-1-2923).
68. Amarnath Pathak, Partha Pakray, Sandip Sarkar, Dipankar Das, Alexander Gelbukh. *MathIRs: Retrieval System for Scientific Documents*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 21, No. 2, 2017, pp. 253–265; doi: [10.13053/CyS-21-2-2743](https://doi.org/10.13053/CyS-21-2-2743).
69. Claudia Becerra, Fabio A. Auguto Gonzalez Osorio, Alexander Gelbukh. *LinearTag Models: Recommendations Using Linear User Profiles Based on Tags*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 21, No. 1, 2017, pp. 115–127; doi: [10.13053/CyS-21-1-2579](https://doi.org/10.13053/CyS-21-1-2579).
70. Goutam Majumder, Partha Pakray, Alexander Gelbukh, David Pinto. *Semantic Textual Similarity Methods, Tools, and Applications: A Survey*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 20, No. 4, 2016, pp. 647–665; doi: [10.13053/CyS-20-4-2506](https://doi.org/10.13053/CyS-20-4-2506).
71. Sandeep Kumar Dash, Partha Pakray, Alexander Gelbukh. *Learning Physiotherapy through Virtual Action*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 20, No. 3, 2016, pp. 477–482; doi: [10.13053/CyS-20-3-2450](https://doi.org/10.13053/CyS-20-3-2450).
72. Rohini Basak, Sudip Kumar Naskar, Partha Pakray, Alexander Gelbukh. *Recognizing Textual Entailment by Soft Dependency Tree Matching*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 19, No. 4, 2015, pp. 685–700; doi: [10.13053/CyS-19-4-2331](https://doi.org/10.13053/CyS-19-4-2331).
73. Claudia Pérez Martínez, Gabriel López Morteo, Magally Martínez Reyes, Alexander Gelbukh. *Wikipedia-based Learning Path Generation*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 19, No. 3, 2015, pp. 589–600; doi: [10.13053/CyS-19-3-2079](https://doi.org/10.13053/CyS-19-3-2079).
74. Sergio Jimenez, Fabio A. Gonzalez, Alexander Gelbukh. *Soft Cardinality in Semantic Text Processing: Experience of the SemEval International Competitions*. *Polibits*, ISSN 1870-9044, Issue 51, 2015, pp. 63–72; doi: [10.17562/PB-51-9](https://doi.org/10.17562/PB-51-9).
75. Reyna Melara Abarca, Claudia Perez-Martinez, Alexander Gelbukh, Gabriel López Morteo, Magally Martinez Reyes, Moisés Pérez López. *Wikification of Learning Objects using Metadata as an Alternative Context for Disambiguation*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 18, No. 4, 2014, pp. 755–765; doi: [10.13053/CyS-18-4-2029](https://doi.org/10.13053/CyS-18-4-2029).
76. Grigori Sidorov, Alexander Gelbukh, Helena Gómez-Adorno, David Pinto. *Soft Similarity and Soft Cosine Measure: Similarity of Features in Vector Space Model*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 18, No. 3, 2014, pp. 491–504; doi: [10.13053/CyS-18-3-2043](https://doi.org/10.13053/CyS-18-3-2043).
77. Jordi Centelles, Marta R. Costa-jussà, Rafael E. Banchs, Alexander Gelbukh. *On-line and Off-line Chinese-Portuguese Translation Service for Mobile Applications*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 18, No. 3, 2014 pp. 603–610; doi: [10.13053/CyS-18-3-2047](https://doi.org/10.13053/CyS-18-3-2047).

78. Alexander Gelbukh. *Unsupervised Learning for Syntactic Disambiguation*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 18, No. 2, 2014, pp. 329–344; doi: 10.13053/CyS-18-2-2014-035.
79. Eduardo Cendejas, Grettel Barceló, Grigori Sidorov, Alexander Gelbukh, Liliana Chanona–Hernandez. *Redes de palabras alineadas como recurso en la extracción de equivalencias léxicas de traducción y su aplicación en la alineación (Aligned Word Networks as a Resource for Extraction of Lexical Translation Equivalents, and their Application to the Text Alignment Task)*. *Polibits*, ISSN 1870-9044, Issue 46, 2012, pp. 39–48.
80. Alexander Gelbukh, Olga Kolesnikova. *Supervised Learning Algorithms Evaluation on Recognizing Semantic Types of Spanish Verb-Noun Collocations (Evaluación de algoritmos de aprendizaje supervisado para reconocimiento de las clases semánticas de colocaciones verbo-sustantivo en español)*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 16, No. 3, 2012, pp. 297–308.
81. Horacio Alberto García Salas, Alexander Gelbukh, Hiram Calvo, Fernando Galindo Soria. *Automatic music composition with simple probabilistic generative grammars*. *Polibits*, ISSN 1870-9044, N 44, 2011, pp. 59–65.
82. Partha Pakray, Soujanya Poria, Sivaji Bandyopadhyay, Alexander Gelbukh. *Semantic Textual Entailment Recognition using UNL*. *Polibits*, ISSN 1870-9044, Issue 43, 2011, pp. 23–27.
83. Hiram Calvo, Alexander Gelbukh. *Automatic Semantic Role Labeling using Selectional Preferences with Very Large Corpora* (abstract of PhD thesis of Hiram Calvo). *Computación y Sistemas*, ISSN 1405-5546, Vol. 12 No. 1, July–September 2008, pp. 128–150.
84. Yoel Ledo Mezquita, Alexander Gelbukh, Grigori Sidorov. *Recuperación de Información con Resolución de Ambigüedad de Sentidos de Palabras para el Español (Information Retrieval with Word Sense Disambiguation for Spanish; abstract of PhD thesis of Yoel Ledo Mezquita)*. *Computación y Sistemas*, ISSN 1405-5546, Vol. 11 No. 3, January–March 2008, pp. 288–300.
85. Manuel Montes-y-Gomez, Alexander Gelbukh, Aurelio López López. *Minería de texto empleando la semejanza entre estructuras semánticas* (abstract of PhD thesis of Manuel Montes). *Computación y Sistemas*, ISSN 1405-5546, Vol. 9 No. 1, July–September 2005, pp. 63–81.
86. Alexander Gelbukh, Grigori Sidorov, Adolfo Guzman-Arenas. *Document Indexing with a Concept Hierarchy*. *Computación y Sistemas*, ISSN 1405-5546, Vol. VIII No. 4, April–June 2005, pp. 281–292.
87. Alexander Gelbukh, Grigori Sidorov, Francisco Velásquez. *Análisis morfológico automático del español a través de generación*. *Escritos*, ISSN 0188–6126, N 28, 2003, pp. 9–26.

88. Alexander Gelbukh, Grigori Sidorov. *Hacia la verificación de diccionarios explicativos asistidos por computadora*. Estudios de Lingüística Aplicada, ISSN 0185-2647, N 38, 2003, pp. 89–108.
89. Alexander Gelbukh. *Exact and approximate prefix search under access locality requirements for morphological analysis and spelling correction*. Computación y Sistemas, ISSN 1405-5546, vol. 6, N 3, 2003, pp. 167–182.
90. Alexander Gelbukh. *Lazy query expansion*. Computación y Sistemas, ISSN 1405-5546, Vol. 6, No. 1, July-September 2002, p. 13–24.
91. Alexander Gelbukh, Grigori Sidorov, Igor Bolshakov. *On Coherence Maintenance in Human-Machine Dialogue with Contextual Ellipses*. Computación y Sistemas, ISSN 1405-5546, Vol. 5, N 3, 2002, pp. 204–214.
92. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. *Mining the news: trends, associations, and deviations*. Computación y Sistemas, ISSN 1405-5546, Vol. 5, N 1, 2001, pp. 14–24.

### Otras revistas y ediciones periódicas

93. Sergio Damián, Alexander Gelbukh, Hiram Calvo. *Detección de noticias falsas en sitios web y redes sociales: Una investigación del estado del arte*. Research in Computing Science, ISSN 1870-4069, vol. 149, no. 8, 2020, pp. 907–914.
94. Snehlata Sheoran, Neetu Mittal, Alexander Gelbukh. *Artificial bee colony algorithm in data flow testing for optimal test suite generation*. International Journal of System Assurance Engineering and Management, ISSN 0975-6809, eISSN 0976-4348, vol. 11, 2020, pp. 340–349; doi: [10.1007/s13198-019-00862-1](https://doi.org/10.1007/s13198-019-00862-1) (published in 2019).  
SJR 2018: 0.29 (Q3).
95. Iskander Akhmetov, Alexander Krassovitsky, Irina Ualiyeva, Alexander Gelbukh, Rustam Mussabayev. *An Open-Source Lemmatizer for Russian Language based on Tree Regression Models*. Research in Computing Science, ISSN 1870-4069, vol. 149, no. 3, 2020, pp. 147–153.
96. Carolina Fócil-Arias, Grigori Sidorov, Alexander Gelbukh, Miguel A. Sanchez-Perez. *A Comparative Analysis of Learning Techniques for Cancer Risk Prediction based on Medical Textual Records*. Research in Computing Science, ISSN 1870-4069, vol. 130, 2016, pp. 77–88.
97. Goutam Majumder, Partha Pakray, Alexander Gelbukh. *Measuring Semantic Textual Similarity of Sentences Using Modified Information Content and Lexical Taxonomy*. International Journal of Computational Linguistics and Applications, vol. 7, no. 2, 2016, pp. 65–85.

98. Francisco Javier Garcia-Lopez, Ildar Batyrshin, Alexander Gelbukh. *Similitud de series de tiempo basada en longitud de patrones de la transformada por aproximación móvil*. Research in Computing Science, ISSN 1870-4069, Vol. 115, 2016, pp. 79–92.
99. Claudia Jeanneth Becerra Cortés, Sergio Gonzalo Jiménez Vargas, Fabio Augusto González Osorio, Alexander Gelbukh. *Recomendación de productos a partir de perfiles de usuario interpretables (Products recommendation based on interpretable user profiles)*. Tecnura, ISSN: 0123-921X, Vol. 19, No. 45, 2015, pp. 89–100; doi: 10.14483/udistrital.jour.tecnura.2015.3.a07.
100. Ivan Omar Cruz-Garcia, Alexander Gelbukh, Grigori Sidorov. *Implicit Aspect Indicator Extraction for Aspect-based Opinion Mining*. International Journal of Computational Linguistics and Applications, Vol. 5 No. 2, 2014, pp. 135–152.
101. Sabino Miranda-Jiménez, Alexander Gelbukh, Grigori Sidorov. *Conceptual Graphs as Framework for Summarizing Short Texts*. International Journal of Conceptual Structures and Smart Applications, ISSN: 2166-7292, eISSN: 2166-7306, Vol. 2, No. 2, 2014, pp. 55–75; doi: 10.4018/IJCSSA.2014070104.
102. Alexander Gelbukh. *Enriquecimiento parcial de la consulta para la recuperación de información de alta calidad y flexibilidad*. Research in Computing Science, ISSN 1870-4069, Vol. 73, 2014, pp. 17–44.
103. Pinaki Bhaskar, Partha Pakray, Alexander Gelbukh, Sivaji Bandyopadhyay. *Entailment-based Fully Automatic Technique for Evaluation of Summaries*. Research in Computing Science, ISSN 1870-4069, Vol. 65, 2013, pp. 11–23.
104. Partha Pakray, Alexander Gelbukh, Sivaji Bandyopadhyay. *Aplicación de la implicación textual en un sistema de la validación de respuestas automáticas (An Application of Textual Entailment Recognition in an Answer Validation System)*. In Spanish, with abstract in English. Research in Computing Science, ISSN 1870-4069, Vol. 62, 2013, pp. 79–94.
105. Francisco Viveros-Jiménez, Efrén Mezura-Montes, Alexander Gelbukh. *Empirical Analysis of a Micro-Evolutionary Algorithm for Numerical Optimization*. International Journal of the Physical Sciences, ISSN 1992-1950, Vol. 7(8), pp. 1235–1258, 16 February, 2012; doi: 10.5897/IJPS11.303.  
SJR 2012: 0.271 (Q3). JCR **impact factor** 2010 (when submitted): 0.540.
106. Miguel Rios, Alexander Gelbukh. *Recognizing Textual Entailment with Similarity Metrics*. Research in Computing Science, ISSN 1870-4069, Vol. 58, 2012, pp. 337–347.
107. Liliana Chanona-Hernández, Alexander Gelbukh. *Corpus morfológicamente representativo: preparación de datos y compilación para el español*. Research in Computing Science, ISSN 1870-4069, Vol. 56, 2012, pp. 131–143.

108. Partha Pakray, Utsab Barman, Sivaji Bandyopadhyay, Alexander Gelbukh. *Semantic Answer Validation using Universal Networking Language*. International Journal of Computer Science and Information Technologies (IJCSIT), ISSN 0975-9646. Vol. 3 issue 4, 2012, pp. 4927–4932.
109. Alisa Zhila, Alexander Gelbukh. *Análisis de una aplicación multilingüe del agrupamiento de textos*. Research in Computing Science, ISSN 1870-4069, Vol. 55, 2012, pp. 45–56.
110. Alexander Gelbukh. *Ontology-based Semantic Relatedness Measures: Applications and Calculation*. Research in Computing Science, ISSN 1870-4069, Vol. 47, 2012, pp. 117–138.
111. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Textual Entailment using Lexical and Syntactic Similarity*. International Journal of Artificial Intelligence & Applications (IJAIA), ISSN 0976-2191, Vol.2, No.1, January 2011, pp. 43–58; DOI: [10.5121/ijaia.2011.2104](https://doi.org/10.5121/ijaia.2011.2104).
112. Sonia Ordoñez Salinas, Alexander Gelbukh. *Representación computacional del lenguaje natural escrito*. Ingeniería, ISSN 0121-750X, Universidad Distrital F.J.C., Colombia, vol. 15, No. 1, 2010, pp. 6–21.  
Indexed: [Latindex](#).
113. Olga Kolesnikova, Alexander Gelbukh. *Using WEKA for Semantic Classification of Spanish Verb-Noun Collocations*. Research in Computing Science, N 45, ISSN 1870-4069, 2010.
114. Ricardo Ávila-Argüelles, Hiram Calvo, Alexander Gelbukh, Salvador Godoy-Calderón. *Assigning Library of Congress Classification Codes to Books Based Only on their Titles*. Informatica, Slovenia, print ISSN 0350-5596, web ISSN 1854-3871; Vol. 34, N 1, 2010, p. 77–84.  
SJR 2010: 0.276 (Q3).
115. Sulema Torres, Alexander Gelbukh. *Comparing Similarity Measures for Original WSD Lesk Algorithm*. ENC 2009. Alejandro Buchmann (Ed.). Advances in Computer Science and Applications. Research in Computing Science, ISSN 1870-4069, N 43, pp.155–166.
116. Miguel Ángel Ríos Gaona, Salvador Godoy Calderón, Alexander Gelbukh. *Word Sense Disambiguation with the KORA-Q Algorithm*. Advances in Intelligent and Information Technologies. Research in Computing Science, ISSN 1870-4069, N 38, 2008, pp. 263–270.
117. René Arnulfo García-Hernández, Yulia Ledeneva, Alexander Gelbukh, Citlalih Gutiérrez. *An Assessment of Word Sequence Models for Extractive Text Summarization*. Advances in Intelligent and Information Technologies. Research in Computing Science, ISSN 1870-4069, N 38, 2008, pp. 253–262.



118. Yulia Ledeneva, Alexander Gelbukh, René García Hernandez. *Keeping Maximal Frequent Sequences Facilitates Extractive Summarization*. *Research in Computing Science*, ISSN 1870-4069, vol. 34, 2008, pp. 163–174.
119. Javier Tejada-Cárcamo, Alexander Gelbukh, Hiram Calvo. *An innovative two-stage WSD unsupervised method*. *Procesamiento de Lenguaje Natural*, N 40, March 2008. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 99–106.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
120. Hiram Calvo, Alexander Gelbukh. *Extracting WordNet-like Top Concepts from Explanatory Dictionaries*. *International Journal of Translation*, Vol. 20, No. 1–2, ISSN 0970-9819, 2008, pp. 57–66.
121. Carlos Mario Zapata Jaramillo, Alexander Gelbukh, Fernando Arango Isaza. *A Novel CASE Tool based on Pre-Conceptual Schemas for Automatically Obtaining UML Diagrams (Una Novedosa Herramienta CASE basada en Esquemas Preconceptuales para la Obtención Automática de Diagramas UML)*. *Avances en Sistemas e Informática*, Colombia. ISSN 1657-7663, Vol. 4, N 2, September 2007, pp. 117–124. Edición Especial: II Congreso Colombiano de Computación - CCC 2007.
122. Yulia Ledeneva, Alexander Gelbukh, Carlos A. Reyes García, Rene A. Garcia Hernandez. *Automatic Determination of Parameters for Rule Base Reduction of Complex Fuzzy Control Systems*. 8<sup>th</sup> Conference on Computing CORE-2007, Mexico City, Mexico, May 2007. *Advances in Computer Science and Engineering*. *Research in Computing Science*, ISSN 1870-4069, Vol. 27, pp. 37–48.
123. Sofia N. Galicia-Haro, Alexander Gelbukh. *Complex named entities in Spanish texts: Structures and properties*. In: Satoshi Sekine and Elisabete Ranchhod (eds.), *Named Entities: Recognition, classification and use*. Special issue. *Linguisticæ Investigationes* 30:1 (2007): 69–94; ISSN 0378-4169, E-ISSN 1569-9927.  
SJR 2018: 0.144 (Q3); not in Scopus when published.  
Reprinted as a book chapter:
- Sofia N. Galicia-Haro, Alexander Gelbukh. *Complex named entities in Spanish texts: Structures and properties*. In: Satoshi Sekine and Elisabete Ranchhod (eds.), *Named Entities: Recognition, classification and use*. Harbound: ISBN 978 90 272 2249 7; e-book: ISBN 978 90 272 8922 3, John Benjamins Publishing Co., Benjamins Current Topics, 19 (2009): 71–96.
124. Alexander Gelbukh, Igor A. Bolshakov. *Internet, a true friend of translator: the Google wildcard operator*. *International Journal of Translation*, ISSN 0970-9819, Vol. 18, No. 1–2, 2006, pp. 41–48.
125. Carlos Mario Zapata Jaramillo, Fernando Arango Isaza, Alexander Gelbukh. *Pre-conceptual Schema: a UML Isomorphism for Automatically Obtaining UML*



- Conceptual Schemas*. In: Advances in Computer Science and Engineering. Research in Computing Science, Vol. 19, ISSN 1665-9899, IPN, 2006, printing 500, pp. 3–14.
126. Xavier Blanco, Mikhail Alexandrov, Alexander Gelbukh. *Modified Makagonov's Method for Testing Word Similarity and its Application to Constructing Word Frequency Lists*. In: Advances in Natural Language Processing. Research in Computing Science, Vol. 18, ISSN 1665-9899, IPN, 2006, printing 500, pp. 27–36.
127. Alexander Gelbukh, Hiram Calvo, Sulema Torres. *Transforming a Constituency Treebank into a Dependency Treebank*. *Procesamiento de Lenguaje Natural*, N 35, September 2005. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
128. Alexander Gelbukh, Grigori Sidorov, Yoel Ledo-Mezquita. *Some Linguistic Methods of Improving the Quality of Document Retrieval on the Internet*. *International Journal of Electronic Business* (IJEB), UK, ISSN 1470-6067, ISSN 1741-5063, Vol. 3, No. 3/4, May–June 2005, Special Issue “Multidisciplinary, Interdisciplinary, and Transdisciplinary Research in Electronic Business,” Part I, pp. 264–275.  
SJR 2018: 0.19 (Q3); not in Scopus when published.
129. Mikhail Alexandrov, Xavier Blanco, Alexander Gelbukh, Pavel Makagonov. *Knowledge-poor Approach to Constructing Word Frequency Lists, with Examples from Romance Languages*. *Procesamiento de Lenguaje Natural*, No 33, September 2004. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 127–132.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
130. A. F. Gelbukh, G. O. Sidorov, Sang Yong Han. Автоматическое разрешение неоднозначности значений слов в словарных толкованиях (in Russian, *Automatic word sense disambiguation in dictionary definitions*). *Nauchno-Tekhnicheskaya Informaciya* (NTI), ISSN 0548-0027, ser. 2, N 3, 2004, pp. 10–15.
131. A. Gelbukh, G. Sidorov, S. N. Galicia-Haro, I. A. Bolshakov. *Method and Means of Development of Context-Free Grammars for Natural Language Parsers*. WSEAS Transactions on Communications, ISSN 1109-2742. Issue 1 vol. 3, January, 2004, pp. 87–92.  
SJR 2017: 0.116 (Q4); not in Scopus when published.
132. Alexander Gelbukh, Grigori Sidorov, Sang Yong Han. *Comparison of some global coherence optimization heuristics for word sense disambiguation*. Research on computing science, ISSN 1665-9899, 2003, Vol. 3, pp. 181–185.  
Also printed as:
- Alexander Gelbukh, Sang Yong Han, Grigori Sidorov. *Comparison of some global coherence optimization heuristics for word sense disambiguation*. Juan Luis Días de

- León Santiago *et al.* (eds.), *Avances en: Ciencias de la Computación* (selected papers of CIC-2003, XII Congreso Internacional de Computación), ISBN 970-36-0098-0, p. 131–135.
133. [Hiram Calvo](#), [Alexander Gelbukh](#). *Natural Language Interface Framework for Spatial Object Composition Systems*. *Procesamiento de Lenguaje Natural*, No 31, September 2003. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 285–292.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
134. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Yoel Ledo-Mezquita](#). *On similarity of word senses in explanatory dictionaries*. *International Journal of Translation*, ISSN 0970-9819, Vol. 15, No. 2, 2003, pp. 51–60.
135. [Alexander Gelbukh](#), [Igor A. Bolshakov](#). *Internet, a true friend of translator*. *International Journal of Translation*, ISSN 0970-9819, Vol. 15, No. 2, 2003, pp. 31–50.
136. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Sang Yong Han](#). *Evolutionary Approach to Natural Language Word Sense Disambiguation through Global Coherence Optimization*. *WSEAS Transactions on Communications*, ISSN 1109-2742, Issue 1 Vol. 2, January 2003, p. 11–19.  
SJR 2017: 0.116 (Q4); not in Scopus when published.  
[www.worldses.org/journals/communications/january2003.doc](http://www.worldses.org/journals/communications/january2003.doc).
137. [I. A. Bolshakov](#), [A. Gelbukh](#). *Paronyms for Accelerated Correction of Semantic Errors*. *International Journal on Information Theories and Applications*, ISSN 1310-0513, Vol.10, 2003, pp. 11–19.
138. [Igor Bolshakov](#), [Alexander Gelbukh](#). *Word Combinations as an important part of modern electronic dictionaries*. *Procesamiento de Lenguaje Natural*, No 29, September 2002. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, p. 47–54.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
139. [Alexander Gelbukh](#), [Grigori Sidorov](#). *Selección automática del vocabulario definidor en un diccionario explicativo*. *Procesamiento de Lenguaje Natural*, No 29, September 2002. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, p. 55–64.  
SJR 2018: 0.235 (Q2); not in Scopus when published.  
Early version:
- [Alexander Gelbukh](#) and [Grigori Sidorov](#). *Selección automática del vocabulario definidor en un diccionario explicativo*. Technical report, Serie Azul, N 104, June 2001. CIC, IPN, ISBN 970-18-6978-8, 13 pp.

140. Alexander Gelbukh, Grigori Sidorov. *Morphological Analysis of Inflective Languages through Generation*. *Procesamiento de Lenguaje Natural*, No 29, September 2002. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, p. 105–112.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
141. Sofía Galicia-Haro, Alexander F. Gelbukh, Igor A. Bolshakov. *Análisis sintáctico para el español basado en el formalismo de la teoría significado-texto*. *Procesamiento de Lenguaje Natural*, No 29, September 2002. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, p. 81–88.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
142. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López, Ricardo Baeza-Yates. *Un método de agrupamiento de grafos conceptuales para minería de texto*. *Procesamiento de Lenguaje Natural*, No 27, September 2001. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 115–122.  
SJR 2018: 0.235 (Q2); not in Scopus when published.  
Revised version:
- Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López, Ricardo Baeza-Yates. *Minería de texto empleando grafos conceptuales*. Technical report, Serie Azul, N 105, June 2001. CIC, IPN, ISBN 970-18-6979-6, 9 pp.
143. S. Galicia Haro, A. Gelbukh, I. A. Bolshakov. *Una aproximación para resolución de ambigüedad estructural empleando tres mecanismos diferentes*. *Procesamiento de Lenguaje Natural*, No 27, September 2001. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 55–64.  
SJR 2018: 0.235 (Q2); not in Scopus when published.
144. A.F. Gelbukh, G.O. Sidorov. *Zipf and Heaps law coefficients for Russian and English* (in Russian). *Nauchno-Tehnicheskaya Informaciya* (NTI), ISSN 0548-0027, ser. 2, vol. 9, Moscow, Russia, 2001, pp. 32–37.  
JCR impact factor 1994: 0.008; not in JCR when published.
145. Alexander Gelbukh, Grigori Sidorov. *On Zipf and Heaps law coefficients for English and Russian*. *Automatic Documentation and Mathematical Linguistics*, ISSN 0005-1055, Allerton Press, vol. 35, N 5, 2001, pp. 23–31.  
Translation of: A.F. Gelbukh, G.O. Sidorov. *Zipf and Heaps law coefficients for Russian and English* (in Russian). *Nauchno-Tehnicheskaya Informaciya* (NTI), ISSN 0548-0027, ser. 2, vol. 9, Moscow, Russia, 2001, pp. 32–37.
146. A. Gelbukh, G.O. Sidorov, S.N. Galicia Haro, I.A. Bolshakov. *Environment for Development of a Natural Language Syntactic Analyzer* (in Russian). *Acta Academia* 2002, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2002, pp. 206–213.

147. I.A. Bolshakov and A. Gelbukh. *On a method of quantitative evaluation of text cohesion* (in Russian). *Acta Academia* 2002, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2002, pp. 214–220.
148. A.F. Gelbukh, G.O. Sidorov. *Heaps law coefficients for Russian and English languages* (in Russian). In: *Acta Academia* 2001, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2001, ISBN 9975-941-60-55, printing 1000, pp. 184–188.
149. Igor A. Bolshakov and Alexander F. Gelbukh. *A Large Database of Collocations and Semantic References: Interlingual Applications*. *International Journal of Translation*, ISSN 0970-9819, Vol.13, No.1–2, 2001, pp. 167–187.
- Reprinted as a book chapter:
- Igor A. Bolshakov and Alexander F. Gelbukh. *A Large Database of Collocations and Semantic References: Interlingual Applications*. M. Blekhman (ed.), *Machine Translation: Theory and Practice*, Bahri Publications, 2001, pp. 167–187.
150. Igor A. Bolshakov and Alexander F. Gelbukh. *The Obligatory Characteristics of Nouns in the Languages with Articles* (in Russian). In: *Acta Academia* 2000, printing 500, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2000, ISBN 9975-941-52-4, pp. 204–208.
- [www.iaa.md](http://www.iaa.md), [www.iaa.md/AA00CNT.htm](http://www.iaa.md/AA00CNT.htm)
151. Alexander Gelbukh, Grigori Sidorov, Adolfo Guzman-Arenas. *A system of Search, Classification, and Thematic Summarization of Documents with the use of a Hierarchical Thesaurus* (in Russian). In: *Acta Academia* 2000, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2000, ISBN 9975-941-52-4, printing 500, pp. 190–203.
- [www.iaa.md](http://www.iaa.md), [www.iaa.md/AA00CNT.htm](http://www.iaa.md/AA00CNT.htm)
152. M. Alexandrov, A. Gelbukh, P. Makagonov. *A language-independent approach to evaluation of the document thematic structure*. In: *Acta Academia* 2000, printing 500, International Informatization Academy (branch of Moldova) and United Nations, Evrica, Chisinau, Moldova, 2000, ISBN 9975-941-52-4, pp. 177–189.
- [www.iaa.md](http://www.iaa.md), [www.iaa.md/AA00CNT.htm](http://www.iaa.md/AA00CNT.htm)
153. I.A. Bolshakov and A.F. Gelbukh. *Рубрикация словосочетаний в базах данных по элементам толкования сочетаемых слов (Rubrification of Word Combinations in the Databases by Elements of Meaning of Combined Words)*, in Russian). *Nauchno-Tekhnicheskaya Informaciya*, ISSN 0548-0027, ser. 2, vol. 6, Moscow, Russia, 2000, pp. 26–33.

JCR impact factor 1994: 0.008; not in JCR when published.

Revised version:

- I.A. Bolshakov, A.F. Gelbukh. *Classification of Collocations in a Lexical Database by Meaning of the Combined Words*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 5–15.
- 154. I.A. Bolshakov, A.F. Gelbukh. *Classification of collocations in databases by meaning of combined words*. *Automatic Documentation and Mathematical Linguistics*, ISSN 0005-1055, Allerton Press, vol. 34, N 3, 2000, pp. 64–74.

Translation of: I.A. Bolshakov and A.F. Gelbukh. Рубрикация словосочетаний в базах данных по элементам толкования сочетаемых слов (*Rubrication of Word Combinations in the Databases by Elements of Meaning of Combined Words*, in Russian). *Nauchno-Tekhnicheskaya Informaciya*, ISSN 0548-0027, ser. 2, vol. 6, Moscow, Russia, 2000, pp. 26–33.

- 155. I.A. Bolshakov, A.F. Gelbukh. *The Meaning  $\Leftrightarrow$  Text Model: Thirty Years After* (in Russian). *International Forum on Information and Documentation*, FID 519, ISSN 0304-9701, N 1, 2000, pp. 10–16.

SSCI: JCR **impact factor** 1999 (when submitted): 0.160; not in JCR when published.

Slightly revised version:

- I.A. Bolshakov and A.F. Gelbukh. *On Contemporary Status of the Meaning  $\Leftrightarrow$  Text Model*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 17–25.
- 156. I.A. Bolshakov, A.F. Gelbukh, S.N. Galicia Haro. *Electronic Dictionaries: For both Humans and Computers* (in Russian). *International Forum on Information and Documentation*, FID 519, ISSN 0304-9701, N 3, 1999, pp. 17–22.

SSCI: JCR **impact factor** 1999 (when published): 0.160; not in JCR.

Slightly revised version:

- Igor A. Bolshakov, Alexander F. Gelbukh, Sofia N. Galicia-Haro. *Towards the Idea of a Universal Dictionary*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 33–43.
- 157. Alexander Gelbukh. *Разрешение синтаксической неоднозначности и извлечение словаря моделей управления из корпуса текстов* (*Syntactic disambiguation and extraction of a government pattern dictionary from a text corpus*, in Russian). *Искусственный интеллект* (*Artificial intelligence*, ISSN 1561-5375, ISSN 1561-5359, ISSN 1561-5367, Ukraine) N 2, 1999, special issue: proc. 8<sup>th</sup> International Conference Knowledge-Dialogue-Solution (KDS-99), Yalta, Ukraine, September 13–18, 1999, pp. 313–320.
- 158. Alexander Gelbukh, Grigori Sidorov, Adolfo Guzman-Arenas. *Система поиска и классификации документов с использованием иерархического словаря тем* (*A system for search and classification of the documents with the use of a hierarchic thematic dictionary*, in Russian). *Искусственный интеллект* (*Artificial intelligence*, ISSN 1561-5375, ISSN 1561-5359, ISSN 1561-5367, Ukraine) N 2, 1999, special

issue: proc. 8<sup>th</sup> International Conference Knowledge-Dialogue-Solution (KDS-99), Yalta, Ukraine, September 13–18, 1999; pp. 321–328.

159. S. Galicia Haro, I. Bolshakov, [A. Gelbukh](#). *Diccionario de patrones de manejo sintáctico para análisis de textos en español*. *Procesamiento de Lenguaje Natural*, No 23, September 1998. Sociedad Española para el Procesamiento de Lenguaje Natural (SEPLN), ISSN 1135-5948, Spain, pp. 171–176.

SJR 2018: 0.235 (Q2); not in Scopus when published.

Revised version:

- Galicia Haro, Sofía N., [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Descripción y aplicación de un diccionario de patrones de manejo sintáctico para el español*. In: A. de Albornoz Bueno *et al.* (eds.), *Selected Works 1997–1998*, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 141–149.

160. [A.F. Gelbukh](#). *Effective implementation of morphology model for an inflectional natural language*. *Automatic Documentation and Mathematical Linguistics*, ISSN 0005-1055, Allerton Press, vol. 26, N 1, 1992, pp. 22–31.

Translation of: [A. Gelbukh](#). *Эффективно реализуемая модель морфологии флективного естественного языка* (*Efficiently-Realized Model of the Natural-Language Morphology*, in Russian). *Nauchno-Tekhnicheskaya Informatsiya*, ISSN 0548-0027, ser. 2, vol. 1, Moscow, Russia, 1992, pp. 24–31.

161. [A.F. Gelbukh](#). *Minimizing the number of memory accesses in dictionary morphologic analysis*. *Automatic Documentation and Mathematical Linguistics*, ISSN 0005-1055, Allerton Press, vol. 25, N 3, 1991, pp. 40–45.

Translation of: [A. Gelbukh](#). *Минимизация количества обращений к дисковой памяти при словарном морфологическом анализе* (*Minimizing the Use of Disk Memory During Vocabulary Morphological Analysis*, in Russian). *Nauchno-Tekhnicheskaya Informatsiya*, ISSN 0548-0027, ser. 2, vol. 6, Moscow, Russia, 1991, pp. 15–21.

## Libros

162. [A. Gelbukh](#), [Hiram Calvo](#). *Automatic Syntactic Analysis Based on Selectional Preferences*. ISBN 978-3-319-74053-9. Series: *Studies Computational Intelligence*, Vol. 765, ISSN 1860-949X. Springer, 2018, 165 pp.; doi: [10.1007/978-3-319-74054-6](https://doi.org/10.1007/978-3-319-74054-6).
163. [A. Gelbukh](#). *Multiword Expressions in Automatic Natural Language Processing*. Sociedad Mexicana de Inteligencia Artificial. ISBN 978-607-96749-1-5, 2015, 170 pp.
164. [A. Gelbukh](#). *Métodos y aplicaciones de la lingüística computacional*. Sociedad Mexicana de Inteligencia Artificial. ISBN 978-607-96749-2-2, 2015, 310 pp.
165. [A. Gelbukh](#), Olga Kolesnikova. *Semantic Analysis of Verbal Collocations with Lexical Functions*. ISBN 978-3-642-28770-1. Series: *Studies in Computational Intelligence*,



- Vol. 414, ISSN 1860-949X. Springer, 2013, XI + 146 pp; doi: [10.1007/978-3-642-28771-8](https://doi.org/10.1007/978-3-642-28771-8).
166. [Hiram Calvo](#), [A. Gelbukh](#). *DILUCT: Análisis sintáctico semisupervisado para el español: Determinación automática de roles semánticos con preferencias de selección sobre corpus muy grandes*. Editorial Académica Española. 4 Nov. 2011. ISBN 978-3845493435. 192 pp.
167. S. N. Galicia Haro, [A. Gelbukh](#). *Investigaciones en análisis sintáctico para el español*. IPN, Mexico, ISBN 970-36-0265-7, 2007, 324 pp.
168. [A. Gelbukh](#), [G. Sidorov](#). *Procesamiento automático del español con enfoque en recursos léxicos grandes*. Segunda edición, ampliada y revisada. IPN, Mexico, ISBN 978-607-414-171-9, 2010, 307 pp.
- First edition:
- [A. Gelbukh](#), [G. Sidorov](#). *Procesamiento automático del español con enfoque en recursos léxicos grandes*. IPN, Mexico, ISBN 970-36-0264-9, 2006, 240 pp.
169. I.A. Bolshakov, [A. Gelbukh](#). *Computational linguistics: models, resources, applications*. IPN – UNAM – Fondo de Cultura Económica, Mexico, ISBN 970-36-0147-2, 2004, 187 pp.

Note: Some citations of this book are indexed by Google Scholar as citations of a review paper by Anna Feldman in *Computational Linguistics* 32(3):443–444, 2006.

## Capítulos en libros de investigación

Nota: [Un capítulo más](#) es una reimpresión de un artículo: *A Large Database of Collocations and Semantic References: Interlingual Applications*, y [un capítulo más](#) es una reimpresión de un artículo: *Complex named entities in Spanish texts: Structures and properties*.

170. Jason Angel, Christian E. Maldonado-Sifuentes, [Alexander Gelbukh](#), [Grigori Sidorov](#). *Developing a Language-Learning Resource for Indigenous Endangered Languages of Mexico*. Chapter IV. Procesamiento de lenguaje natural para las lenguas indígenas. Universidad Michoacana de San Nicolás de Hidalgo; ISBN 978-607-542-182-7, 2021, pp. 66–80.
171. Christian E. Maldonado-Sifuentes, Jason Angel, [Grigori Sidorov](#), [Alexander Gelbukh](#). *Towards the Inclusion of Indigenous Languages on NLP Mainstream Research: Challenges, Relevance, and a Roadmap Proposal*. Chapter X. Procesamiento de lenguaje natural para las lenguas indígenas. Universidad Michoacana de San Nicolás de Hidalgo; ISBN 978-607-542-182-7, 2021, pp. 161–172.
172. [Alexander Gelbukh](#), José A. Martínez F., Andres Verastegui, Alberto Ochoa. *Issues in the Syntactic Parsing of Queries for a Natural Language Interface to Databases*. Handbook of Research on Natural Language Processing and Smart Service Systems.



- IGI Global; ISBN 978-1-7998-4730-4, 2021, pp. 157–179; doi: [10.4018/978-1-7998-4730-4.ch007](https://doi.org/10.4018/978-1-7998-4730-4.ch007).
173. Rohini Basak, Sudip Kumar Naskar, Alexander Gelbukh. *A Lexico-Syntactic-Semantic Approach to Recognizing Textual Entailment*. In: Kwok Tai Chui, Miltiadis D. Lytras, Ryan Wen Liu, Mingbo Zhao (eds.) *Innovations, Algorithms, and Applications in Cognitive Informatics and Natural Intelligence*. IGI Global; ISBN 978-1-7998-3038-2, 2020, 403 pp. Chapter 10: pp. 187–227; doi: [10.4018/978-1-7998-3038-2.ch010](https://doi.org/10.4018/978-1-7998-3038-2.ch010).
  174. Alexander Gelbukh. *Procesamiento automático del lenguaje natural*. In: Inteligencia Artificial. Alfaomega Grupo Editor, ISBN 978-607-622-696-4, 2018, 660 pp.; Chapter 7: pp. 261–294.
  175. L. A. Pineda, H. Calvo, L. Villaseñor, N. A. Castro, A. Gelbukh, Y. Hernández, H. Jiménez, M. Montes, D. Pinto, F. Sánchez, G. Sidorov. *Lingüística Computacional*. In: *La Computación en México por especialidades académicas*. Academia Mexicana de Computación, ISBN 978-607-97357-1-5, 2017, 301 pp.; Chapter 3: pp. 91–126.
  176. Alexander Gelbukh, Olga Kolesnikova. *Multiword Expressions in NLP: General Survey and a Special Case of Verb-Noun Constructions*. In: Sivaji Bandyopadhyay, Sudip Kumar Naskar, Asif Ekbal (eds.). *Emerging Applications of Natural Language Processing: Concepts and New Research*. IGI Global, ISBN 978-1-4666-2169-5, 2013, 366 pp. Chapter 1: pp. 1–21; doi: [10.4018/978-1-4666-2169-5.ch001](https://doi.org/10.4018/978-1-4666-2169-5.ch001).
  177. Alisa Zhila, Alexander Gelbukh. *Clasificación de los métodos para la mejora de WSD y de los métodos de evaluación correspondientes*. Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). *Avances recientes en sistemas inteligentes*. Sociedad Mexicana de Inteligencia Artificial, 2011, ISBN 978-607-95367-3-2, 10 p.
  178. Sonia Ordoñez-Salinas, Alexander Gelbukh. *Generación de grafos conceptuales*. Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). *Avances en sistemas inteligentes en México*. Sociedad Mexicana de Inteligencia Artificial, 2010, ISBN 978-607-95367-2-5, pp. 139–150.
  179. S. N. Galicia-Haro, Alexander Gelbukh. *Expresiones temporales, estudio preliminar de algunas formas con adverbio*. In: M.<sup>a</sup> Auxiliadora Castillo Carballo, Juan Manuel García Platero (Eds.). *La Lexicografía en su dimensión teórica*. Selected papers of III Congreso Internacional de Lexicografía Hispánica, septiembre de 2008. ISBN 978-84-9747-297-5. Universidad de Málaga, 2010, 710 p.
  180. Sofía N. Galicia-Haro, Alexander Gelbukh. *Analyzing Spanish Temporal Expressions Expressing Age*. Pascual Cantos Gómez, Aquilino Sánchez Pérez (eds.) *A Survey on Corpus-based Research Panorama de investigaciones basadas en corpus*, ISBN 978-84-692-2198-3. Asociación Española de Lingüística del Corpus, 2009, pp. 152–163.
  181. Carlos Mario Zapata Jaramillo, Alexander Gelbukh, Carlos Mendez. *Generación automática de ontologías para la educación de requisitos a partir de reglamentos y*

- documentación técnica*. Tendencias en Ingeniería de Software e Inteligencia Artificial. Vol. 3. Colombia. ISBN 978-958-44-5820-9, 2008, pp. 21–28.
182. Alberto Ochoa, [Arturo Hernández](#), Saúl González, Arnulfo Castro, [Alexander Gelbukh](#), Alberto Hernández, Halina Iztebegovič. *Social Data Mining to Improve Bioinspired Intelligent Systems*. In: Eugenia G. Giannopoulou (Ed.) *Data Mining in Medical and Biological Research*. In-Tech, Austria, ISBN 978-953-7619-30-5, 2008, 320 pp.; Chapter 17: pp. 291–320.
183. [Yulia Ledeneva](#), René García Hernández, [Alexander Gelbukh](#). *Automatic estimation of parameters of complex fuzzy control systems*. In: Aleksandar Lazinica (Ed.) *New Developments in Robotics, Automation and Control*. In-Tech, Croatia. 2008, ISBN 978-953-7619-20-6, 504 pp.; Chapter 25: pp. 475–504.
184. [Alexander Gelbukh](#). *Procesamiento del lenguaje natural: estado de la investigación*. Catalina Naumis (Ed.). Bibliotecología y terminología: representación temática de contenidos documentales. México DF: CUIB. UNAM, 2008.
185. Sofía N. Galicia-Haro, [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Hacia la determinación automática de palabras compuestas: el caso preposicional*. In: Mar Campos Souto, Eugenia Conde Noguerol, José Ignacio Pérez Pascual, José Alvaro Porto Dapena (Eds.). *Reflexiones sobre el diccionario*. Universidade da Coruña, Spain, 2007, ISBN 84-8487-115-0, pp. 195–206.
- Also appears as:
- Sofía N. Galicia-Haro, [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Hacia la determinación automática de palabras compuestas: el caso preposicional*. I Congreso Internacional de Lexicografía Hispánica. A Coruña, Spain, September 2004.
186. Wilbert A. Olán Cristobal, [Alexander Gelbukh](#), [Grigori Sidorov](#). *Desarrollo de herramienta para lexicógrafo con detección automática de relaciones semánticas implícitas*. Recientes avances en la Ciencia de la Computación en México, Series (later journal) Research on Computer Science, vol. 7, ISBN 970-36-0149-9, IPN, 2004, printing 500, p. 99–104.
187. P. Makagonov, M. Alexandrov, [A. Gelbukh](#). *Selection of typical documents in a document flow*. N. Mastorakis and V. Kluev (eds.) Advances in Communications and Software Technologies. WSEAS Press, ISBN 960-8052-71-8, 2002, pp. 197–202.
- Also appears as:
- Pavel Makagonov, Mikhail Alexandrov, [Alexander Gelbukh](#). [Selection of Representative Documents in a Document Collection](#). Joint Proc. [WSEAS ICONEMC 2002](#), [ICOSMO 2002](#), [ICOSSIP 2002](#), [ICOMIV 2002](#) and [ICRODIC 2002](#), 2002, pp. 3801–3806.
188. J. Antonio Zárate M., Rodolfo A. Pazos R., [Alexander Gelbukh](#), Joaquín Pérez O. *Natural Language Interface for Web-based Databases*. Nicos E. Mastorakis, Vitaliy

V. Kluev (eds.), *Advances in Multimedia, Video and Signal Processing Systems*, ISBN 960-8052-72-6, WSEAS Press, 2002, pp. 65–70.

Also appears as:

- J. Antonio Zárate M, Rodolfo A. Pazos R, [Alexander Gelbukh](#), Joaquín Pérez O. *Natural Language Interface for Web-based Databases*. Joint Proc. [WSEAS ICONEMC 2002](#), [ICOSMO 2002](#), [ICOSSIP 2002](#), [ICOMIV 2002](#) and [ICRODIC 2002](#), 2002, pp. 3771–3776.
- 189. I.A. Bolshakov, [Alexander Gelbukh](#). *Enseñando idiomas extranjeros con una base de colocaciones*. In: Caridad Anías Calderón, Yoel Ledo Mezquita (eds.) *La telemática y su aplicación en la educación a distancia y en la informatización de la sociedad*. Editorial "Félix Varela", Cuba, ISBN 959-261-042-8, 2002, Tomo II, p. 632–638.
- 190. Yoel Ledo Mezquita, [Grigori Sidorov](#), [Alexander Gelbukh](#), Caridad Anías Calderón. *Sistema de asignación semiautomática de sentidos de palabras en textos en español*. In: Caridad Anías Calderón, Yoel Ledo Mezquita (eds.) *La telemática y su aplicación en la educación a distancia y en la informatización de la sociedad*. Editorial "Félix Varela", Cuba, ISBN 959-261-042-8, 2002, Tomo II, p. 625–631.
- 191. Yoel Ledo Mezquita, [Grigori Sidorov](#), [Alexander Gelbukh](#), Caridad Anías Calderón. *Búsqueda en bibliotecas digitales indexadas con sentidos de palabras*. In: Caridad Anías Calderón, Yoel Ledo Mezquita (eds.) *La telemática y su aplicación en la educación a distancia y en la informatización de la sociedad*. Editorial "Félix Varela", Cuba, ISBN 959-261-042-8, 2002, Tomo I, p. 288–299.
- 192. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Adolfo Guzman-Arenas](#). *Simple method for hierarchical conceptual indexing of documents using relational data model*. Alexander Zemliak and Nikos E. Mastorakis (eds.). *Advances in Information Science and Soft Computing*, ISBN 960-8052-60-2, WSEAS Press, 2002, p. 134–139.

Reprinted as:

- [Alexander Gelbukh](#), [Grigori Sidorov](#), [Adolfo Guzman-Arenas](#). *Simple method for hierarchical conceptual indexing of documents using relational data model*. Technical report, Serie Roja, N 101, May 2002. CIC, IPN, ISBN 970-18-8082-X, 9 pp.
- 193. Sofía N. Galicia-Haro, [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Compilation of a Mexican Spanish text corpora*. Alexander Zemliak and Nikos E. Mastorakis (eds.). *Advances in Information Science and Soft Computing*, ISBN 960-8052-60-2, WSEAS Press, 2002, p.70–75.

Reprinted as:

- Sofía N. Galicia-Haro, [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Compilation of a Mexican Spanish text corpora*. Technical report, Serie Azul, N 129, March 2002. CIC, IPN, ISBN 970-18-7901-5, 9 pp.

194. [George M. Adelson-Velsky](#), [Alexander F. Gelbukh](#), [Eugene Levner](#). *A fast scheduling algorithm in AND-OR graphs*. V.V. Kluev, N.E. Mastorakis (eds.), Topics in Applied and Theoretical Mathematics and Computer Science, ISBN 960-8052-47-6, WSEAS Press, 2001, pp. 170–175.

Reprinted as:

- [George M. Adelson-Velsky](#), [Alexander F. Gelbukh](#), [Eugene Levner](#). *A fast scheduling algorithm in AND-OR graphs*. Technical report, Serie Azul, N 128, March 2002. CIC, IPN, ISBN 970-18-7900-7, 6 pp.
195. [Manuel Montes y Gómez](#), [Alexander F. Gelbukh](#), [Aurelio López López](#). *Document intentions expressed in titles. Extraction, representation, and possible use*. In: A. de Albornoz Bueno *et al.* (eds.), Selected Works 1997–1998, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 322–330.

An extended version of: Manuel Montes y Gómez, Aurelio López López. *Nominalization in titles: a way to extract document details*. Proc. CIC-98, Simposium Internacional de Computación, November 11–13, 1998, Mexico D.F., pp. 396–404.

### ***Lecture Notes in Computer Science***

196. Seyed Habib Hosseini-Saravani, Sara Besharati, [Hiram Calvo](#), [Alexander Gelbukh](#). *Depression Detection in Social Media Using a Psychoanalytical Technique for Feature Extraction and a Cognitive Based Classifier*. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 282–292. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_25](https://doi.org/10.1007/978-3-030-60887-3_25).
197. Olumide E. Ojo, [Alexander Gelbukh](#), [Hiram Calvo](#), Olaronke O. Adebajji, [Grigori Sidorov](#). *Sentiment Detection in Economics Texts*. Advances in Computational Intelligence. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 271–281. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_24](https://doi.org/10.1007/978-3-030-60887-3_24).
198. Riyanka Manna, Dipankar Das, Alexander Gelbukh. *Information Retrieval-Based Question Answering System on Foods and Recipes*. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 260–270. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_23](https://doi.org/10.1007/978-3-030-60887-3_23).
199. Riyanka Manna, [Dipankar Das](#), [Alexander Gelbukh](#). *Question Classification in a Question Answering System on Cooking*. Advances in Computational Intelligence. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 103–108. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_10](https://doi.org/10.1007/978-3-030-60887-3_10).
200. Brian Daniel Herrera-González, [Alexander Gelbukh](#), [Hiram Calvo](#). *Automatic Story Generation: State of the Art and Recent Trends*. MICAI 2020. Lecture Notes in

- Computer Science, vol. 12469, 2020, pp. 81–91. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_8](https://doi.org/10.1007/978-3-030-60887-3_8).
201. [Maaz Amjad](#), Yuriria Rodriguez Chavez, Zaryyab Nayab, [Alisa Zhila](#), [Grigori Sidorov](#), [Alexander Gelbukh](#). *Analysis of COVID-19 Pandemic Using Artificial Intelligence*. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 65–73. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_6](https://doi.org/10.1007/978-3-030-60887-3_6).
  202. Thang Hoang Ta, Abu Bakar Siddiquir Rahman, [Grigori Sidorov](#), [Alexander Gelbukh](#). *Mining Hidden Topics from Newspaper Quotations: The COVID-19 Pandemic*. Advances in Computational Intelligence. MICAI 2020. Lecture Notes in Computer Science, vol. 12469, 2020, pp. 51–64. Springer, Cham; ISBN 978-3-030-60887-3; doi: [10.1007/978-3-030-60887-3\\_5](https://doi.org/10.1007/978-3-030-60887-3_5).
  203. [Kia Dashtipour](#), Ali Raza, [Alexander Gelbukh](#), Rui Zhang, [Erik Cambria](#), [Amir Hussain](#). *PerSent 2.0: Persian Sentiment Lexicon Enriched with Domain-Specific Words*. Advances in Brain Inspired Cognitive Systems. International Conference on Brain Inspired Cognitive Systems, BICS 2019, 13–14 July, 2019, Guangzhou, China. ISBN 978-3-030-39430-1. Lecture Notes in Computer Science, N 11691, 2020, pp. 497–509; doi: [10.1007/978-3-030-39431-8\\_48](https://doi.org/10.1007/978-3-030-39431-8_48).
  204. Arturo Hernández-Miranda, [Alexander Gelbukh](#), [Olga Kolesnikova](#). *Lexical Function Identification Using Word Embeddings and Deep Learning*. 18th Mexican International Conference on Artificial Intelligence, MICAI 2019, Xalapa, Mexico, October 27 to November 2, 2019. Advances in Soft Computing. Lecture Notes in Artificial Intelligence, N 11835, 2019, pp. 77–86; doi: [10.1007/978-3-030-33749-0\\_7](https://doi.org/10.1007/978-3-030-33749-0_7).
  205. [Sergio Jimenez](#), George Dueñas, [Alexander Gelbukh](#), Carlos A. Rodriguez-Diaz, Sergio Mancera. *Automatic Detection of Regional Words for Pan-Hispanic Spanish on Twitter*. 16th Ibero-American Conference on AI, Trujillo, Peru, November 13-16, 2018, Proceedings, ISBN 978-3-030-03927-1. Lecture Notes in Artificial Intelligence, N 11238, 2018, pp. 404–416; doi: [10.1007/978-3-030-03928-8\\_33](https://doi.org/10.1007/978-3-030-03928-8_33).
  206. [Olga Kolesnikova](#), [Alexander Gelbukh](#). *Exploring the Context of Lexical Functions*. 17th Mexican International Conference on Artificial Intelligence, MICAI 2018, Guadalajara, Mexico, October 22–27, 2018, Proceedings, Part II, ISBN 978-3-030-04496-1. Lecture Notes in Artificial Intelligence, N 11289, 2018, pp 57–69; doi: [10.1007/978-3-030-04497-8\\_5](https://doi.org/10.1007/978-3-030-04497-8_5).
  207. [Olga Kolesnikova](#), [Alexander Gelbukh](#). *Binary and Multi-class Classification of Lexical Functions in Spanish Verb-Noun Collocations*. Advances in Computational Intelligence. 16<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2017, Ensenada, Mexico, October 23–28, 2017, Proceedings, Part II. Lecture Notes in Artificial Intelligence, N 10633, 2018, in press.
  208. [Kia Dashtipour](#), [Amir Hussain](#), [Alexander Gelbukh](#). *Adaptation of Sentiment Analysis Techniques to Persian Language*. Computational Linguistics and Intelligent Text



- Processing. CICLing 2017. Lecture Notes in Computer Science, vol. 10762, ISBN 978-3-319-77116-8, ISSN 0302-9743. Springer, 2018, pp. 129–140; doi: [10.1007/978-3-319-77116-8\\_10](https://doi.org/10.1007/978-3-319-77116-8_10).
209. Sandeep Kumar Dash, [Partha Pakray](#), [Robert Porzel](#), [Jan Smeddinck](#), [Rainer Malaka](#), [Alexander Gelbukh](#). *Designing an Ontology for Physical Exercise Actions*. Computational Linguistics and Intelligent Text Processing. CICLing 2017. Lecture Notes in Computer Science, vol. 10761, ISBN 978-3-319-77113-7, ISSN 0302-9743. Springer, 2018, pp. 354–362; doi: [10.1007/978-3-319-77113-7\\_28](https://doi.org/10.1007/978-3-319-77113-7_28).
210. Goutam Majumder, [Partha Pakray](#), Zoramdinthara Khiangte, [Alexander Gelbukh](#). *Multiword Expressions (MWE) for Mizo Language: Literature Survey*. Computational Linguistics and Intelligent Text Processing. CICLing 2016. Lecture Notes in Computer Science, vol. 9623, ISBN 978-3-319-75476-5, ISSN 0302-9743. Springer, 2018, pp. 623–635; doi: [10.1007/978-3-319-75477-2\\_45](https://doi.org/10.1007/978-3-319-75477-2_45).
211. [Olga Kolesnikova](#), [Alexander Gelbukh](#). *Characteristics of Most Frequent Spanish Verb-Noun Combinations*. Advances in Computational Intelligence. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I. Lecture Notes in Artificial Intelligence, N 10061, 2017, pp. 27–40; doi: [10.1007/978-3-319-62434-1\\_3](https://doi.org/10.1007/978-3-319-62434-1_3).
212. Riyanka Manna, [Partha Pakray](#), Somnath Banerjee, [Dipankar Das](#), [Alexander Gelbukh](#). *CookingQA: A Question Answering System based on Cooking Ontology*. Advances in Computational Intelligence. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I. Lecture Notes in Artificial Intelligence, N 10061, 2017, pp. 67–78; doi: [10.1007/978-3-319-62434-1\\_6](https://doi.org/10.1007/978-3-319-62434-1_6).
213. Pabel Carrillo-Mendoza, [Hiram Calvo](#), [Alexander Gelbukh](#). *Intra-Document and Inter-Document Redundancy in Multi-Document Summarization*. Advances in Computational Intelligence. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I. Lecture Notes in Artificial Intelligence, N 10061, 2017, pp. 105–115; doi: [10.1007/978-3-319-62434-1\\_9](https://doi.org/10.1007/978-3-319-62434-1_9).
214. Iliia Markov, Helena Gómez-Adorno, Juan-Pablo Posadas-Durán, [Grigori Sidorov](#), [Alexander Gelbukh](#). *Author Profiling with doc2vec Neural Network-Based Document Embeddings*. Advances in Soft Computing. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I. Lecture Notes in Artificial Intelligence, N 10062, 2017, pp. 117–131; doi: [10.1007/978-3-319-62428-0\\_9](https://doi.org/10.1007/978-3-319-62428-0_9).
215. Sandeep Kumar Dash, [Partha Pakray](#), [Alexander Gelbukh](#). *Generating a Logical Structure for Virtualizing Physiotherapy Instructions through NLP*. Advances in Soft Computing. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI

- 2016, Cancún, Mexico, October 23–28, 2016, Proceedings, Part I. Lecture Notes in Artificial Intelligence, N 10062, 2017, pp. 513–523; doi: [10.1007/978-3-319-62428-0\\_42](https://doi.org/10.1007/978-3-319-62428-0_42).
216. Sandip Sarkar, Partha Pakray, Dipankar Das, Alexander Gelbukh. *Regression Based Approaches for Detecting and Measuring Textual Similarity*. Mining Intelligence and Knowledge Exploration. 4<sup>th</sup> International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2016, Mexico City, Mexico, November 13–19, 2016, Revised Selected Papers. ISBN 978-3-319-58129-3. Lecture Notes in Computer Science, vol. 10089, 2017, pp. 144–152, doi: [10.1007/978-3-319-58130-9\\_14](https://doi.org/10.1007/978-3-319-58130-9_14).
217. Kia Dashtipour, Amir Hussain, Qiang Zhou, Alexander Gelbukh, Ahmad Y. A. Hawalah, Erik Cambria. *PerSent: A Freely Available Persian Sentiment Lexicon*. International Conference on Brain Inspired Cognitive Systems, BICS 2016. Advances in Brain Inspired Cognitive Systems. ISBN 978-3-319-49684-9, ISSN 0302-9743. Lecture Notes in Computer Science, vol. 10023, 2016, pp. 310–320; doi: [10.1007/978-3-319-49685-6\\_28](https://doi.org/10.1007/978-3-319-49685-6_28).
218. Sofia N. Galicia-Haro, Alexander F. Gelbukh. *Assessing Context for Extraction of Near Synonyms from Product Reviews in Spanish*. Text, Speech, and Dialogue. 19th International Conference, TSD 2016, Brno, Czech Republic, September 12–16, 2016, Proceedings. ISBN 978-3-319-45509-9, ISSN 0302-9743. Lecture Notes in Computer Science, vol. 9924, 2016, pp. 125–133, doi: [10.1007/978-3-319-45510-5\\_15](https://doi.org/10.1007/978-3-319-45510-5_15).
219. Sofia N. Galicia-Haro, Alonso Palomino Garibay, Jonathan Gallegos-Acosta, Alexander Gelbukh. *Analysis of Negation Cues for Semantic Orientation Classification of Reviews in Spanish*. 14<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICA I 2015, ISSN 0302-9743, ISBN 978-3-319-27100-2, ISBN 978-3-319-27101-9. Lecture Notes in Artificial Intelligence, N 9414, 2015, pp. 105–120, doi: [10.1007/978-3-319-27101-9\\_8](https://doi.org/10.1007/978-3-319-27101-9_8).
220. Olga Kolesnikova, Alexander Gelbukh. *Measuring Non-compositionality of Verb-Noun Collocations using Lexical Functions and WordNet Hypernyms*. 14<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICA I 2015, ISSN 0302-9743, ISBN 978-3-319-27100-2, ISBN 978-3-319-27101-9. Lecture Notes in Artificial Intelligence, N 9414, 2015, pp. 3–25, doi: [10.1007/978-3-319-27101-9\\_1](https://doi.org/10.1007/978-3-319-27101-9_1).
221. Miguel A. Sanchez-Perez, Alexander Gelbukh, Grigori Sidorov. *Adaptive Algorithm for Plagiarism Detection: The Best-Performing Approach at PAN 2014 Text Alignment Competition*. Experimental IR Meets Multilinguality, Multimodality, and Interaction. 6th International Conference of the CLEF Association, CLEF'15 Toulouse, France, September 8–11, 2015, Proceedings. Springer, ISSN 0302-9743; ISBN: 978-3-319-24026-8 (Print) 978-3-319-24027-5 (Online). Lecture Notes in Computer Science N 9283, 2015, pp. 402–413. doi: [10.1007/978-3-319-24027-5\\_42](https://doi.org/10.1007/978-3-319-24027-5_42).



222. [Hiram Calvo](#), [Alexander Gelbukh](#). *Is the Most Frequent Sense of a Word Better Connected in a Semantic Network?* ICIC 2015. D.-S. Huang and K. Han (Eds.) Advanced Intelligent Computing Theories and Applications. Lecture Notes in Computer Science, N 9227, Springer, ISSN 0302-9743; ISBN 978-3-319-22052-9, 2015, pp. 491–499, doi: [10.1007/978-3-319-22053-6\\_52](https://doi.org/10.1007/978-3-319-22053-6_52).
- Best paper award.**
223. [Yulia Ledeneva](#), [René Arnulfo García-Hernández](#), [Alexander Gelbukh](#). *A New Disagreement Measure for Characterization of Classification Problems*. In: Advances in Swarm and Computational Intelligence. 6<sup>th</sup> International Conference, ICSI 2015, held in conjunction with the Second BRICS Congress, CCI 2015, Beijing, China, June 25–28, 2015, Proceedings, Part III. Lecture Notes in Computer Science N 9142, Springer, 2015, ISSN 0302-9743; ISBN 978-3-319-20468-0, pp. 137–144, doi: [10.1007/978-3-319-20469-7\\_16](https://doi.org/10.1007/978-3-319-20469-7_16).
224. [Santanu Pal](#), [Partha Pakray](#), [Alexander Gelbukh](#), [Josef van Genabith](#). *Mining Parallel Resources for Machine Translation from Comparable Corpora*. In: 16<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2015, Cairo, Egypt, April 14–20, 2015, Proceedings, Part I. Lecture Notes in Computer Science N 9041, Springer, 2015, ISSN 0302-9743, ISBN 978-3-319-18110-3, pp. 534–544, doi: [10.1007/978-3-319-18111-0\\_40](https://doi.org/10.1007/978-3-319-18111-0_40).
225. [Prerna Chikersal](#), [Soujanya Poria](#), [Erik Cambria](#), [Alexander Gelbukh](#), [Chng Eng Siong](#). *Modelling Public Sentiment in Twitter: Using Linguistic Patterns to Enhance Supervised Learning*. In: 16<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2015, Cairo, Egypt, April 14–20, 2015, Proceedings, Part II. Lecture Notes in Computer Science N 9042, Springer, 2015, ISSN 0302-9743, ISBN 978-3-319-18116-5, pp. 49–65, doi: [10.1007/978-3-319-18117-2\\_4](https://doi.org/10.1007/978-3-319-18117-2_4).
226. [Partha Pakray](#), [Alexander Gelbukh](#). *An Open-Domain Cause-Effect Relation Detection from Paired Nominals*. Nature-Inspired Computing and Its Applications (Proceedings of MICA 2014, Part 2). Lecture Notes in Computer Science, N 8857, ISSN 0302-9743, ISBN 978-3-319-13649-3, Springer, 2014, pp. 263–271; doi: [10.1007/978-3-319-13650-9\\_24](https://doi.org/10.1007/978-3-319-13650-9_24) (LNCS online).
227. [Hiram Calvo](#), [Alexander Gelbukh](#). *Finding the Most Frequent Sense of a Word by the Length of Its Definition*. Human-Inspired Computing and Its Applications (Proceedings of MICA 2014, Part 1). Lecture Notes in Computer Science, N 8856, ISSN 0302-9743, ISBN 978-3-319-13646-2, Springer, 2014, pp. 1–8; doi: [10.1007/978-3-319-13647-9\\_1](https://doi.org/10.1007/978-3-319-13647-9_1) (LNCS online).
228. [Sofía N. Galicia-Haro](#), [Alexander Gelbukh](#). *Extraction of Semantic Relations from Opinion Reviews in Spanish*. Human-Inspired Computing and Its Applications (Proceedings of MICA 2014, Part 1). Lecture Notes in Computer Science, N 8856, ISSN 0302-9743, ISBN 978-3-319-13646-2, Springer, 2014, pp. 175–190; doi: [10.1007/978-3-319-13647-9\\_18](https://doi.org/10.1007/978-3-319-13647-9_18) (LNCS online).

229. Soujanya Poria, Basant Agarwal, Alexander Gelbukh, Amir Hussain, Newton Howard. *Dependency-Based Semantic Parsing for Concept-Level Text Analysis*. In proceedings of the 15<sup>th</sup> International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2014, Part I. Lecture Notes in Computer Science, N 8403, ISSN 0302-9743, Springer, 2014, pp. 113–127 ([LNCS online](#)).
230. Miguel Rios, Lucia Specia, Alexander Gelbukh, Ruslan Mitkov. *Statistical Relational Learning to Recognise Textual Entailment*. In proceedings of the 15th International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2014, Part I. Lecture Notes in Computer Science, N 8403, ISSN 0302-9743, Springer, 2014, pp. 330–339 ([LNCS online](#)).
231. Jordi Centelles, Marta Ruiz Costa-jussà, Rafael E. Banchs, Alexander Gelbukh. *An IR-Based Strategy for Supporting Chinese-Portuguese Translation Services in Off-line Mode*. In proceedings of the 15th International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2014, Part II. Lecture Notes in Computer Science, N 8404, ISSN 0302-9743, Springer, 2014, pp. 324–330 ([LNCS online](#)).
232. Yulia Ledeneva, René Arnulfo García-Hernández, Alexander Gelbukh. *Graph Ranking on Maximal Frequent Sequences for Single Extractive Text Summarization*. In proceedings of the 15th International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2014, Part II. Lecture Notes in Computer Science, N 8404, ISSN 0302-9743, Springer, 2014, pp. 466–480 ([LNCS online](#)).
233. Soujanya Poria, Alexander Gelbukh, Basant Agarwal, Erik Cambria, Newton Howard. *Common Sense Knowledge Based Personality Recognition from Text*. MICAI 2013. Lecture Notes in Artificial Intelligence, N 8266, ISSN 0302-9743, Springer, 2013, pp. 484–496; doi: 10.1007/978-3-642-45111-9\_42 ([LNCS online](#)).
234. Francisco Viveros-Jiménez, Alexander Gelbukh, Grigori Sidorov. *Simple Window Selection Strategies for the Simplified Lesk Algorithm for Word Sense Disambiguation*. MICAI 2013. Lecture Notes in Artificial Intelligence, N 8265, ISSN 0302-9743, Springer, 2013, pp. 217–227 ([LNCS online](#)).
235. Soujanya Poria, Alexander Gelbukh, Amir Hussain, Sivaji Bandyopadhyay, Newton Howard. *Music Genre Classification: A Semi-supervised Approach*. MCPR 2013. Lecture Notes in Computer Science N 7914, ISSN 0302-9743, Springer, 2013, pp. 254–263 ([LNCS online](#)).
236. Grigori Sidorov, Francisco Velasquez, Efstathios Stamatatos, Alexander Gelbukh, Liliana Chanona-Hernández. *Syntactic Dependency-Based N-grams: More Evidence of Usefulness in Classification*. CICLing 2013. Lecture Notes in Computer Science N 7816, ISSN 0302-9743, Springer, 2013, pp. 13–24 ([LNCS online](#)).
237. Alfredo L. Monroy, Hiram Calvo, Alexander Gelbukh, Georgina G. Pacheco. *Link Analysis for Representing and Retrieving Legal Information*. CICLing 2013. Lecture

- Notes in Computer Science N 7816, ISSN 0302-9743, Springer, 2013, pp. 380–393 ([LNCS online](#)).
238. [Grigori Sidorov](#), [Francisco Velasquez](#), [Efstathios Stamatatos](#), [Alexander Gelbukh](#), [Liliana Chanona-Hernández](#). *Syntactic Dependency-based N-grams as Classification Features*. MICAI 2012. Lecture Notes in Artificial Intelligence, N 7630, ISSN 0302-9743, Springer, 2013, pp. 1–11 ([LNCS online](#)).
  239. [Partha Pakray](#), [Santanu Pal](#), [Soujanya Poria](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *SMSFR: SMS-Based FAQ Retrieval System*. MICAI 2012. Lecture Notes in Artificial Intelligence, N 7630, ISSN 0302-9743, Springer, 2013, pp. 36–45 ([LNCS online](#)).
  240. [Partha Pakray](#), [Snehasis Neogi](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *Recognizing Textual Entailment in Non-English Text via Automatic Translation into English*. MICAI 2012. Advances in Computational Intelligence. Lecture Notes in Artificial Intelligence, N 7630, ISSN 0302-9743, Springer, 2013, pp. 26–35 ([LNCS online](#)).
  241. [Grigori Sidorov](#), [Sabino Miranda-Jiménez](#), [Francisco Viveros-Jiménez](#), [Alexander Gelbukh](#), [Noé Castro-Sánchez](#), [Francisco Velásquez](#), [Ismael Díaz-Rangel](#), [Sergio Suárez-Guerra](#), [Alejandro Treviño](#), [Juan Gordon](#). *Empirical Study of Machine Learning Based Approach for Opinion Mining in Tweets*. MICAI 2012. Advances in Computational Intelligence. Lecture Notes in Artificial Intelligence, N 7629, ISSN 0302-9743, Springer, 2013, pp. 1–14 ([LNCS online](#)).
  242. [Soujanya Poria](#), [Alexander Gelbukh](#), [Dipankar Das](#), [Sivaji Bandyopadhyay](#). *Fuzzy Clustering for Semi-Supervised Learning—Case study: Construction of an Emotion Lexicon*. MICAI 2012. Advances in Computational Intelligence. Lecture Notes in Artificial Intelligence, N 7629, Springer, 2013, pp. 73–86 ([LNCS online](#)).
  243. [Sabino Miranda-Jiménez](#), [Alexander Gelbukh](#), [Grigori Sidorov](#). *Summarizing Conceptual Graphs for Automatic Summarization Task*. Conceptual Structures for STEM Research and Education. 20<sup>th</sup> International Conference on Conceptual Structures, ICCS 2013, Mumbai, India, January 10–12, 2013. Lecture Notes in Computer Science, N 7735, ISSN 0302-9743, ISBN 978-3-642-35785-5, Springer, 2013, pp. 245–253 ([LNCS online](#)).
  244. [Sofia N. Galicia-Haro](#), [Alexander Gelbukh](#). *Age-Related Temporal Phrases in Spanish and Italian*. CICLing 2012, Lecture Notes in Computer Science N 7181, ISSN 0302-9743, Springer, 2012, p. 402–414 ([LNCS online](#)).
  245. [Sofia N. Galicia-Haro](#), [Alexander Gelbukh](#). *Age-Related Temporal Phrases in Spanish and French*. MICAI 2011, Lecture Notes in Artificial Intelligence N 7094, ISSN 0302-9743, Springer, 2011, pp. 370–381 ([LNCS online](#)).
  246. [Yulia Ledeneva](#), [René Arnulfo García Hernández](#), [Romyna Montiel Soto](#), [José Rafael Cruz Reyes](#), [Alexander Gelbukh](#). *EM Clustering Algorithm for Automatic Text*

- Summarization*. MICAI 2011, Lecture Notes in Artificial Intelligence N 7094, ISSN 0302-9743, Springer, 2011, pp. 305–315 ([LNCS online](#)).
247. Sergio Jimenez Vargas, [Alexander Gelbukh](#). *SC spectra: A linear-time soft cardinality approximation for text comparison*. MICAI 2011, Lecture Notes in Artificial Intelligence N 7095, ISSN 0302-9743, Springer, 2011, pp. 213–224 ([LNCS online](#)).
- Best paper award, first place.**
248. [Partha Pakray](#), Utsab Barman, [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *A Statistics-Based Semantic Textual Entailment System*. MICAI 2011, Lecture Notes in Artificial Intelligence N 7094, ISSN 0302-9743, Springer, 2011, p. 267–276 ([LNCS online](#)).
249. [Partha Pakray](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *Answer Validation using Textual Entailment*. CICLing 2011, Lecture Notes in Computer Science N 6609, ISSN 0302-9743, Springer, 2011, pp. 359–364 ([LNCS online](#)).
250. [Hiram Calvo](#), Joel Omar Juarez Gambino, [Alexander Gelbukh](#), [Kentarō Inui](#). *Dependency Syntax Analysis using Grammar Induction and a Lexical Categories Precedence System*. CICLing 2011, Lecture Notes in Computer Science N 6608, ISSN 0302-9743, Springer, 2011, pp. 109–120 ([LNCS online](#)).
251. Miguel Angel Ríos Gaona, [Alexander Gelbukh](#), [Sivaji Bandyopadhyay](#). *Recognizing Textual Entailment Using a Machine Learning Approach*. MICAI 2010. Lecture Notes in Artificial Intelligence N 6438, ISSN 0302-9743, Springer, 2010, pp. 177–185 ([LNCS online](#)).
252. [Alexander Gelbukh](#), Olga Kolesnikova. *Supervised Machine Learning for Predicting the Meaning of Verb-Noun Combinations in Spanish*. MICAI 2010. Lecture Notes in Artificial Intelligence N 6438, ISSN 0302-9743, Springer, 2010, pp. 196–207 ([LNCS online](#)).
- Best paper award, first place.**
253. Sonia Ordoñez, [Alexander Gelbukh](#). *Information Retrieval with a Simplified Conceptual Graph-like Representation*. MICAI 2010. Lecture Notes in Artificial Intelligence N 6437, ISSN 0302-9743, Springer, 2010, pp. 92–104 ([LNCS online](#)).
254. [Alberto García](#), [Alexander Gelbukh](#), [Hiram Calvo](#). *Music composition based on linguistic approach*. MICAI 2010. Lecture Notes in Artificial Intelligence N 6437, ISSN 0302-9743, Springer, 2010, pp. 117–128 ([LNCS online](#)).
255. Sergio Jiménez Vargas, [Fabio A. González O.](#), [Alexander Gelbukh](#). *Text Comparison Using Soft Cardinality*. SPIRE 2010, Lecture Notes in Computer Science N 6393, ISSN 0302-9743, ISBN 978-3-642-16320-3, Springer, 2010, pp. 297–302 ([LNCS online](#)).
256. [Alexander Gelbukh](#), Olga Kolesnikova. *Supervised Learning for Semantic Classification of Spanish Collocations*. MCPR 2010. Lecture Notes in Computer Science N 6256, ISSN 0302-9743, Springer, 2010, pp. 362–371 ([LNCS online](#)).

257. Miguel Ángel Ríos Gaona, Alexander Gelbukh, Sivaji Bandyopadhyay. *Recognizing Textual Entailment with Statistical Methods*. MCPR 2010. Lecture Notes in Computer Science N 6256, ISSN 0302-9743, Springer, 2010, pp. 372–381 ([LNCS online](#)).
258. Sofía N. Galicia-Haro, Alexander Gelbukh. *Extracting Human Spanish Nouns*. Petr Sojka, Ales Horák, Ivan Kopecek, Karel Pala (Eds.). Text, Speech and Dialogue, 13<sup>th</sup> International Conference, TSD 2010, Brno, Czech Republic, September 6–10, 2010. Lecture Notes in Artificial Intelligence, N 6231, Springer, ISBN 978-3-642-15759-2, 2010, pp. 75–83 ([LNCS online](#)).
259. Alexander Gelbukh, Grigori Sidorov, Eduardo Lavin-Villa, Liliana Chanona-Hernández. *Automatic Term Extraction Using Log-Likelihood Based Comparison with General Reference Corpus*. Christina J. Hopfe, Yacine Rezgui, Elisabeth Métais, Alun D. Preece, Haijiang Li (Eds.). Natural Language Processing and Information Systems, 15<sup>th</sup> International Conference on Applications of Natural Language to Information Systems, NLDB 2010. Cardiff, UK, June 23–25, 2010. Lecture Notes in Computer Science, N 6177, Springer, ISBN 978-3-642-13880-5, 2010. pp. 248–255 ([LNCS online](#)).
260. Partha Pakray, Alexander Gelbukh, Sivaji Bandyopadhyay. *A Syntactic Textual Entailment System Based on Dependency Parser*. CICLing 2010. Lecture Notes in Computer Science N 6008, Springer, 2010, ISSN 0302-9743, ISBN 978-3-642-12115-9, pp. 269–278 ([LNCS online](#)).
261. Eduardo Cendejas, Grettel Barceló, Alexander Gelbukh, Grigori Sidorov. *Hybrid Algorithm for Word-Level Alignment of Parallel Texts*. NLDB 2009. Lecture Notes in Computer Science N 5723, ISSN 0302-9743, ISBN 978-3-642-12549-2, Springer, 2010, p. 293–294 ([LNCS online](#)).
262. Francisco Viveros Jiménez, Efrén Mezura Montes, Alexander Gelbukh. *Elitistic Evolution: An Efficient Heuristic for Global Optimization*. Mikko Kolehmainen, Pekka J. Toivanen, Bartłomiej Beliczynski (Eds.). Adaptive and Natural Computing Algorithms. 9<sup>th</sup> International Conference, ICANNGA 2009. Kuopio, Finland, April 23–25, 2009. Lecture Notes in Computer Science, N 5495. Springer, ISBN 978-3-642-04920-0, 2009, pp. 171–182 ([LNCS online](#)).
263. Sofía N. Galicia-Haro, Alexander Gelbukh. *Supervised Recognition of Age-Related Spanish Temporal Phrases*. MICAI 2009: Lecture Notes in Artificial Intelligence N 5845, Springer, 2009, ISBN 978-3-642-05257-6, pp. 145–156 ([LNCS online](#)).
264. Eduardo Cendejas, Grettel Barceló, Alexander Gelbukh, Grigori Sidorov. *Incorporating Linguistic Information to Statistical Word-Level Alignment*. CIARP 2009. Lecture Notes in Computer Science, N 5856, Springer, 2009, ISBN 978-3-642-10267-7, pp. 387–394 ([LNCS online](#)).
265. Sofía N. Galicia-Haro, Alexander Gelbukh. *Assessing Context for Age-Related Spanish Temporal Phrases*. 20<sup>th</sup> Irish Conference on Artificial Intelligence and Cognitive



- Science, AICS 2009, School of Computer Science and Informatics, University College Dublin, 19–21 August, 2009. Lecture Notes in Artificial Intelligence, N 6206, Springer, 2010, pp. 92–102 ([LNCS online](#)).
266. Sergio Jimenez, Claudia Becerra, [Alexander Gelbukh](#), Fabio Gonzalez. *Generalized Mongue-Elkan Method for Approximate Text String Comparison*. CICLing 2009. Lecture Notes in Computer Science N 5449, Springer, 2009, ISBN 978-3-642-00381-3, pp. 559–570 ([LNCS online](#)).
267. Alfredo Monroy, Hiram Calvo, [Alexander Gelbukh](#). *NLP for Shallow Question Answering of Legal Documents Using Graphs*. CICLing 2009. Lecture Notes in Computer Science N 5449, Springer, 2009, ISBN 978-3-642-00381-3, pp. 498–508 ([LNCS online](#)).
268. Javier Tejada-Cárcamo, Hiram Calvo, [Alexander Gelbukh](#). *Improving Unsupervised WSD with a Dynamic Thesaurus*. TSD 2008. Lecture Notes in Artificial Intelligence, N 5246, Springer, 2008, pp. 201–210 ([LNCS online](#)).
269. [Alexander Gelbukh](#), Grigori Sidorov, Diego Lara-Reyes, Liliana Chanona-Hernández. *Division of Spanish Words into Morphemes with a Genetic Algorithm*. NLDB 2008. Lecture Notes in Computer Science N 5039, Springer, 2008, pp. 19–26 ([LNCS online](#)).
270. Alfredo Monroy, Hiram Calvo, [Alexander Gelbukh](#). *Using Graphs for Shallow Question Answering on Legal Documents*. MICAI 2008. Lecture Notes in Artificial Intelligence N 5317, Springer, 2008, ISBN 978-3-540-88635-8, pp. 165–173 ([LNCS online](#)).
271. [René Arnulfo García-Hernández](#), Romyna Montiel, [Yulia Ledeneva](#), Eréndira Rendón, [Alexander Gelbukh](#), Rafael Cruz. *Text Summarization by Sentence Extraction Using Unsupervised Learning*. MICAI 2008. Lecture Notes in Artificial Intelligence N 5317, ISBN 978-3-540-88635-8, Springer, 2008, pp. 133–143 ([LNCS online](#)).
272. Igor A. Bolshakov, Elena I. Bolshakova, Alexey P. Kotlyarov, [Alexander Gelbukh](#). *Various Criteria of Collocation Cohesion in Internet: Comparison of Resolving Power*. CICLing 2008: Lecture Notes in Computer Science, N 4919, Springer 2008, ISBN 978-3-540-78134-9, pp. 64–72 ([LNCS online](#)).
273. [Yulia Ledeneva](#), [Alexander Gelbukh](#), [René Arnulfo García-Hernández](#). *Terms Derived from Frequent Sequences for Extractive Text Summarization*. CICLing 2008: Lecture Notes in Computer Science 4919 Springer 2008, ISBN 978-3-540-78134-9, pp. 593–604 ([LNCS online](#)).
274. Igor Bolshakov, [Alexander Gelbukh](#). *Distribution-Based Semantic Similarity of Nouns*. CIARP-2007. Lecture Notes in Computer Science, N 4756, 2007, p. 704–713 ([LNCS online](#)).
275. J. Javier González B., Rodolfo A. Pazos R., [Alexander Gelbukh](#), Grigori Sidorov, Hector Fraire H., I. Cristina Cruz C. *Prepositions and Conjunctions in a Natural*



- Language Interfaces to Databases*. Frontiers of High Performance Computing and Networking ISPA 2007 Workshops. Lecture Notes in Computer Science, N 4743, 2007, p. 173–182 ([LNCS online](#)).
276. M. Jose A. Zarate, Rodolfo A. Pazos R., [Alexander Gelbukh](#), O. Joaquin Perez. *Improving the Customization of Natural Language Interface to Databases Using an Ontology*. Computational Science and Its Applications – ICCSA 2007. Lecture Notes in Computer Science, N 4705, 2007, p.424–435 ([LNCS online](#)).
277. Harri Saarikoski, Steve Legrand, [Alexander Gelbukh](#). *Case-Sensitivity of Classifiers for WSD: Complex Systems Disambiguate Tough Words Better*. CICLing-2007. Lecture Notes in Computer Science, N 4394, 2007, p. 253–266 ([LNCS online](#)).
278. Igor A. Bolshakov, [Alexander Gelbukh](#). *Two Methods of Evaluation of Semantic Similarity of Nouns Based on Their Modifier Sets*. NLDB-2007. Lecture Notes in Computer Science, N 4592, 2007, p. 414–419 ([LNCS online](#)).
279. [Alexander Gelbukh](#), Grigori Sidorov, Liliana Chanona-Hernandez. *Lexical-Based Alignment for Reconstruction of Structure in Parallel Texts*. NLDB-2007. Lecture Notes in Computer Science, N 4592, 2007, p. 401–406 ([LNCS online](#)).
280. Sofia N. Galicia-Haro, [Alexander Gelbukh](#). *Web-Based Model for Disambiguation of Prepositional Phrase Usage*. MICAI-2007. Lecture Notes in Artificial Intelligence, N4827, 2007, p. 922–932 ([LNCS online](#)).
281. [Carlos Mario Zapata](#), Guillermo Gonzalez, [Alexander Gelbukh](#). *A Rule-Based System for Assessing Consistency Between UML Models*. MICAI-2007. Lecture Notes in Artificial Intelligence, N 4827, 2007, p. 215–224 ([LNCS online](#)).
282. Harri Saarikoski, Steve Legrand, [A. Gelbukh](#). *Defining Classifier Regions for WSD Ensembles Using Word Space Features*. MICAI-2006. Lecture Notes in Artificial Intelligence, N 4139, ISSN 0302-4293, **Springer**, 2006 ([LNCS online](#)).
283. [C. Grosan](#), [Ajith Abraham](#), [A. Gelbukh](#). *Evolutionary Method for Nonlinear Systems of Equations*. MICAI-2006. Lecture Notes in Artificial Intelligence, N 4139, ISSN 0302-4293, **Springer**, 2006 ([LNCS online](#)).
284. [Carlos Mario Zapata Jaramillo](#), [A. Gelbukh](#), F. Arango Isaza. *Pre-conceptual Schema: A Conceptual-Graph-like Knowledge Representation for Requirements Elicitation*. MICAI-2006. Lecture Notes in Artificial Intelligence, N 4293, ISSN 0302-9743, **Springer**, 2006, pp. 17–29 ([LNCS online](#)).
285. [Alexander Gelbukh](#), Grigori Sidorov, José Ángel Vera-Félix. *A Bilingual Corpus of Novels Aligned at Paragraph Level*. In proc. FinTAL-2006. Lecture Notes in Artificial Intelligence, N 4139, ISSN 0302-9743, **Springer**, 2006, pp. 16–23 ([LNCS online](#)).
286. [Alexander Gelbukh](#), Grigori Sidorov, Jose Angel Vera-Felix. *Paragraph-Level Alignment of an English-Spanish Parallel Corpus of Fiction Texts Using Bilingual*

- Dictionaries*. TSD-2006. Text, Speech and Dialogue. Lecture Notes in Artificial Intelligence, N 4188, ISSN 0302-9743, Springer 2006, pp. 61–67 ([LNCS online](#)).
287. NamOh Kang, Alexander Gelbukh, SangYong Han. *PPChecker: Plagiarism Pattern Checker in Document Copy Detection*. TSD-2006. Lecture Notes in Artificial Intelligence, N 4188, ISSN 0302-9743, Springer 2006, pp. 661–667 ([LNCS online](#)).
288. Alexander Gelbukh, Grigori Sidorov. *Alignment of Paragraphs in Bilingual Texts using Bilingual Dictionaries and Dynamic Programming*. In: Proc. CIARP-2006, Lecture Notes in Computer Science, N 4225, Springer 2006, p. 824–833 ([LNCS online](#)).
289. Hiram Calvo, Alexander Gelbukh. *DILUCT: An Open-Source Spanish Dependency Parser Based on Rules, Heuristics, and Selectional Preferences*. In: Christian Kop, Günther Fliedl, Heinrich C. Mayr, Elisabeth Métais (eds.). Natural Language Processing and Information Systems. 11<sup>th</sup> International Conference on Applications of Natural Language to Information Systems, NLDB 2006, Klagenfurt, Austria, May/June 2006. Lecture Notes in Computer Science, N 3999, Springer, 2006, ISSN 0302-9743, ISBN 3-540-34616-3, pp. 164–175; doi: [10.1007/11765448\\_15](https://doi.org/10.1007/11765448_15).
290. Pavel Makagonov, Alejandro Ruiz Figueroa, Alexander Gelbukh. *Studying Evolution of a Branch of Knowledge by Constructing and Analyzing Its Ontology*. In: Christian Kop, Günther Fliedl, Heinrich C. Mayr, Elisabeth Métais (eds.). Natural Language Processing and Information Systems. 11<sup>th</sup> International Conference on Applications of Natural Language to Information Systems, NLDB 2006, Klagenfurt, Austria, May/June 2006. Lecture Notes in Computer Science, N 3999, Springer, 2006, ISSN 0302-9743, ISBN 3-540-34616-3, pp. 37–45 ([LNCS online](#)).
291. Alexander Gelbukh, Grigori Sidorov, Sangyong Han, L. Chanona-Hernandez. *Automatic Evaluation of Quality of an Explanatory Dictionary by Comparison of Word Senses*. M. Broy, A. V. Zamulin (Eds.). Perspectives of Systems Informatics, 5th International Andrei Ershov Memorial Conference, PSI 2003, Akademgorodok, Novosibirsk, Russia, July 9–12, 2003, Revised Papers. Lecture Notes in Computer Science, N 2890, Springer, 2003, ISSN 0302-9743, ISBN 3-540-20813-5, pp. 556–562 ([LNCS online](#)).
- Also available in the volume of Preliminary Proceedings of PSI 2003, pp. 346–349.
292. Hiram Calvo, Alexander Gelbukh. *Improving Prepositional Phrase Attachment Disambiguation Using the Web as Corpus*. A. Sanfeliu, J. Ruiz-Shulcloper (Eds.). Progress in Pattern Recognition, Speech and Image Analysis (8th Iberoamerican Congress on Pattern Recognition, CIARP 2003, Habana, Cuba). Lecture Notes in Computer Science, N 2905, ISSN 0302-9743, ISBN 3-540-20590-X, Springer, 2003, pp. 604–610 ([LNCS online](#)).
293. Igor A. Bolshakov, Sofía N. Galicia-Haro, Alexander Gelbukh. *Stable Coordinated Pairs in Text Processing*. Václav Matousek, Pavel Mautner (Eds.) Text, Speech and

- Dialogue (TSD-2003: 6<sup>th</sup> International Conference), Ceske Budejovice, Czech Republic, September, 2003. Lecture Notes in Artificial Intelligence, N 2807, ISSN 0302-9743, ISBN 3-540-20024-X, **Springer**, 2003, pp. 27–34 ([LNCS online](#)).
294. Alexander Gelbukh, Serguei Levachkine, Sang-Yong Han. *Resolving Ambiguities in Toponym Recognition in Cartographic Maps*. In: Josep Lladós, Young-Bin Kwon, Graphics Recognition: Recent Advances and Perspectives, 5th International Workshop, GREC 2003, Barcelona, Spain, July 30–31, 2003, Revised Selected Papers. Lecture Notes in Computer Science, N 3088, ISSN 0302-9743, ISBN 3-540-22478-5, **Springer**, 2004, pp. 75–86 ([LNCS online](#)).
295. Antonio Zárate, Rodolfo Pazos, Alexander Gelbukh, Isabel Padrón. *A Portable Natural Language Interface for Diverse Databases Using Ontologies*. In: Computational Linguistics and Intelligent Text Processing (CICLing-2003, Mexico City). Lecture Notes in Computer Science, N 2588, ISSN 0302-9743, ISBN 3-540-00532-3, **Springer**, pp. 494–505 ([LNCS online](#)).
296. Yoel Ledo Mezquita, Grigori Sidorov, Alexander Gelbukh. *Tool for Computer-Aided Spanish Word Sense Disambiguation*. In: Computational Linguistics and Intelligent Text Processing (CICLing-2003, Mexico City). Lecture Notes in Computer Science, N 2588, ISSN 0302-9743, ISBN 3-540-00532-3, **Springer**, pp. 277–280 ([LNCS online](#)).
297. Alexander Gelbukh and Grigori Sidorov. *Approach to construction of automatic morphological analysis systems for inflective languages with little effort*. In: Computational Linguistics and Intelligent Text Processing (CICLing-2003, Mexico City). Lecture Notes in Computer Science, N 2588, ISSN 0302-9743, ISBN 3-540-00532-3, **Springer**, pp. 215–220 ([LNCS online](#)).
298. Rodolfo A. Pazos R., Alexander Gelbukh, J. Javier González B., Erika Alarcón R., Alejandro Mendoza M., A. Patricia Domínguez S. *Spanish Natural Language Interface for a Relational Database Querying System*. TSD-2002: 5<sup>th</sup> International Workshop on Text, Speech and Dialogue, Brno, Czech Republic, September 9–12, 2002. Lecture Notes in Artificial Intelligence, N 2448, ISSN 0302-9743, ISBN 3-540-44129-8, **Springer**, pp. 123–130 ([LNCS online](#)).
299. M. Montes-y-Gómez, A. Gelbukh, A. López-López. *Detecting deviations in text collections: An approach using conceptual graphs*. Proc. MICAI-2002: Mexican International Conference on Artificial Intelligence, April 2002, Merida, Mexico. Lecture Notes in Artificial Intelligence N 2313, ISSN 0302-9743, ISBN 3-540-43475-5, **Springer**, pp. 176–184 ([LNCS online](#)).
300. Manuel Montes-y-Gómez, Alexander F. Gelbukh, Aurelio López-López. *Text Mining at Detail Level Using Conceptual Graphs*. In: Uta Priss, Dan Corbett, Galia Angelova (Eds.): Conceptual Structures: Integration and Interfaces, 10th International Conference on Conceptual Structures, ICCS 2002, Borovets, Bulgaria, July 15–19,

2002. Lecture Notes in Artificial Intelligence, N 2393, **Springer**, 2002, ISSN 0302-9743, ISBN 3-540-43901-3, pp. 122–136 ([LNCS online](#)).
301. Alexander Gelbukh, Grigori Sidorov, A. Guzmán-Arenas. *Relational Data Model in Document Hierarchical Indexing*. In: E. Ranchhold, N. J. Mamede (Eds.) Advances in Natural Language Processing (PorTAL-2002: Portugal for Natural Language Processing, Faro, Portugal, June 23–26, 2002). Lecture Notes in Artificial Intelligence, N 2389, ISSN 0302-9743, ISBN 3-540-66494-7, **Springer**, pp. 259–262 ([LNCS online](#)).
302. I.A. Bolshakov, A. Gelbukh. *Heuristics-Based Replenishment of Collocation Databases*. In: E. Ranchhold, N. J. Mamede (Eds.) Advances in Natural Language Processing (PorTAL-2002: Portugal for Natural Language Processing, Faro, Portugal, June 23–26, 2002). Lecture Notes in Artificial Intelligence, N 2389, ISSN 0302-9743, ISBN 3-540-66494-7, **Springer**, pp. 25–32 ([LNCS online](#)).

Reprinted as:

- I.A. Bolshakov, A. Gelbukh. *Heuristics-based replenishment of collocation databases*. Technical report, Serie Azul, N 138, April 2002. CIC, IPN, ISBN 970-18-7974-0, 8 pp.
303. Igor A. Bolshakov and Alexander F. Gelbukh. *Text segmentation into paragraphs based on local text cohesion*. Proc. TSD-2001: Forth International Workshop on Text, Speech and Dialogue, Plzen (Pilsen), Czech Republic, September 10–13, 2001. Lecture Notes in Artificial Intelligence N 2166, ISSN 0302-9743, ISBN 3-540-4255-7, **Springer**, pp. 158–166 ([LNCS online](#)).

Reprinted as:

- Igor A. Bolshakov and Alexander F. Gelbukh. *Text segmentation into paragraphs based on local text cohesion*. Technical report, Serie Azul, N 98, June 2001. CIC, IPN, ISBN 970-18-6972-9, 9 pp.

### ***Lecture Notes in Computer Science, indexados en JCR***

304. Rodolfo A. Pazos Rangel, Joaquín Pérez O., Juan Javier González B., Alexander Gelbukh, Grigori Sidorov, Myriam J. Rodríguez M. *A Domain Independent Natural Language Interface to Databases Capable of Processing Complex Queries*. MICAI 2005: Advances in Artificial Intelligence. Lecture Notes in Artificial Intelligence, N 3789, ISSN 0302-9743, ISBN 3-540-29896-7, **Springer**, 2005, pp. 833–842 ([LNCS online](#)).

JCR impact factor 2005: 0. 302.

305. Sofía N. Galicia-Haro, Alexander Gelbukh. *Towards the Automatic Learning of Idiomatic Prepositional Phrases*. MICAI 2005: Advances in Artificial Intelligence. Lecture Notes in Artificial Intelligence, N 3789, ISSN 0302-9743, ISBN 3-540-29896-7, **Springer**, 2005, pp. 780–789 ([LNCS online](#)).

JCR impact factor 2005: 0.302.

306. Ajith Abraham, Crina Grosan, Sang Yong Han, Alexander Gelbukh. *Evolutionary Multiobjective Optimization Approach for Evolving Ensemble of Intelligent Paradigms for Stock Market Modeling*. MICAI 2005: Advances in Artificial Intelligence. Lecture Notes in Artificial Intelligence, N 3789, ISSN 0302-9743, ISBN 3-540-29896-7, **Springer**, 2005, pp. 673–681 ([LNCS online](#)).

JCR impact factor 2005: 0.302.

307. Crina Grosan, Ajith Abraham, Sangyong Han, Alexander Gelbukh. *Hybrid Particle Swarm – Evolutionary Algorithm for Search and Optimization*. MICAI 2005: Advances in Artificial Intelligence. Lecture Notes in Artificial Intelligence, N 3789, ISSN 0302-9743, ISBN 3-540-29896-7, **Springer**, 2005, pp. 623–632 ([LNCS online](#)).

JCR impact factor 2005: 0.302.

308. Igor A. Bolshakov, Sofia N. Galicia-Haro, Alexander Gelbukh. *Detection and Correction of Malapropisms in Spanish by means of Internet Search*. 8<sup>th</sup> International Conference Text, Speech and Dialogue (TSD-2005), Karlovy Vary, Czech Rep. Lecture Notes in Artificial Intelligence, N 3658, ISSN 0302-9743, ISBN 3-540-28789-2, **Springer**, 2005, pp. 115–122 ([LNCS online](#)).

JCR impact factor 2005: 0.302.

309. Mikhail Alexandrov, Alexander Gelbukh, Paolo Rosso. *An Approach to Clustering Abstracts*. A. Montoyo *et al.* (Eds.) Natural Language Processing and Information Systems. 10<sup>th</sup> International Conference on Applications of Natural Languages to Information Systems, NLDB-2005, Alicante, Spain, 2005. Lecture Notes in Computer Science, N 3513, ISSN 0302-9743, ISBN, **Springer**, 2005, pp. 275–285 ([LNCS online](#)).

JCR impact factor 2005: 0.402.

310. Alexander Gelbukh, Grigori Sidorov, SangYong Han. *On Some Optimization Heuristics for Lesk-Like WSD Algorithms*. A. Montoyo *et al.* (Eds.) Natural Language Processing and Information Systems. 10<sup>th</sup> International Conference on Applications of Natural Languages to Information Systems, NLDB-2005, Alicante, Spain, 2005. Lecture Notes in Computer Science, N 3513, ISSN 0302-9743, ISBN, **Springer**, 2005, pp. 402–405 ([LNCS online](#)).

JCR impact factor 2005: 0.402.

311. Alexander Gelbukh, NamO Kang, SangYong Han. *Combining Sources of Evidence for Recognition of Relevant Passages in Texts*. 5<sup>th</sup> International Symposium and School on Advance Distributed Systems (ISSADS-2005), Mexico. Lecture Notes in Computer Science, N 3563, **Springer**, ISSN 0302-9743, ISBN 3-540-28063-4, 2005, pp. 283–290 ([LNCS online](#)).

JCR impact factor 2005: 0.402.



312. Alexander Gelbukh, NamO Kang, SangYong Han. *Experiment on Combining Sources of Evidence for Passage Retrieval*. Computational Linguistics and Intelligent Text Processing (CICLing-2005), Lecture Notes in Computer Science, N 3406, Springer, 2005, ISSN 0302-9743, ISBN 3-540-24523-5, pp. 628–631 (LNCS online).  
JCR impact factor 2005: 0.402.
313. Sofía N. Galicia-Haro, Alexander Gelbukh. *Unsupervised Learning of P NP P Word Combinations*. Computational Linguistics and Intelligent Text Processing (CICLing-2005), Lecture Notes in Computer Science, N 3406, Springer, 2005, ISSN 0302-9743, ISBN 3-540-24523-5, pp. 337–340 (LNCS online).  
JCR impact factor 2005: 0.402.
314. Hiram Calvo, Alexander Gelbukh, Adam Kilgarriff. *Distributional Thesaurus vs. WordNet: A Comparison of Backoff Techniques for Unsupervised PP Attachment*. Computational Linguistics and Intelligent Text Processing (CICLing-2005), Lecture Notes in Computer Science, N 3406, Springer, 2005, ISSN 0302-9743, ISBN 3-540-24523-5, pp. 177–188 (LNCS online).  
JCR impact factor 2005: 0.402.
315. Hiram Calvo, Alexander Gelbukh. *Unsupervised Learning of Ontology-Linked Selectional Preferences*. In: A. Sanfeliu, J. F. Martínez Trinidad, J. A. Carrasco Ochoa (Eds.) Progress in Pattern Recognition, Image Analysis and Applications. 9<sup>th</sup> Iberoamerican Congress on Pattern Recognition, CIARP 2004, Puebla, Mexico, October 2004. Proceedings. Lecture Notes in Computer Science, N 3287, Springer, 2004, ISSN 0302-9743, ISBN 3-540-23527-2, p. 418–424 (LNCS online).  
JCR impact factor 2004: 0.513.
316. Kwangcheol Shin, Sang-Yong Han, Alexander Gelbukh, Jaehwa Park. *Advanced Relevance Feedback Query Expansion Strategy for Information Retrieval in MEDLINE*. In: A. Sanfeliu, J. F. Martínez Trinidad, J. A. Carrasco Ochoa (Eds.) Progress in Pattern Recognition, Image Analysis and Applications. 9<sup>th</sup> Iberoamerican Congress on Pattern Recognition, CIARP 2004, Puebla, Mexico, October 2004. Proceedings. Lecture Notes in Computer Science, N 3287, Springer, 2004, ISSN 0302-9743, ISBN 3-540-23527-2, p. 425–431 (LNCS online).  
JCR impact factor 2004: 0.513.
317. Alexander Gelbukh, Mikhail Alexandrov, SangYong Han. *Detecting Inflection Patterns in Natural Language by Minimization of Morphological Model*. In: A. Sanfeliu, J. F. Martínez Trinidad, J. A. Carrasco Ochoa (Eds.) Progress in Pattern Recognition, Image Analysis and Applications. 9<sup>th</sup> Iberoamerican Congress on Pattern Recognition, CIARP 2004, Puebla, Mexico, October 2004. Proceedings. Lecture Notes in Computer Science, N 3287, Springer, 2004, ISSN 0302-9743, ISBN 3-540-23527-2, p. 432–438 (LNCS online).  
JCR impact factor 2004: 0.513.



318. Kwangcheol Shin, Sang-Yong Han, Alexander Gelbukh. *Balancing Manual and Automatic Indexing for Retrieval of Paper Abstracts*. TSD-2004: 7<sup>th</sup> International Workshop on Text, Speech and Dialogue, Brno, Czech Republic, September, 2004. Lecture Notes in Artificial Intelligence, N 3206, ISSN 0302-9743, ISBN 3-540-23049-1, **Springer**, pp. 203–210 ([LNCS online](#)).
- JCR impact factor 2004: 0.251.
319. Pavel Makagonov, Mikhail Alexandrov, Alexander Gelbukh. *Clustering Abstracts instead of Full Texts*. TSD-2004: 7<sup>th</sup> International Workshop on Text, Speech and Dialogue, Brno, Czech Republic, September, 2004. Lecture Notes in Artificial Intelligence, N 3206, ISSN 0302-9743, ISBN 3-540-23049-1, **Springer**, 2004, pp. 129–135 ([LNCS online](#)).
- JCR impact factor 2004: 0.251.
320. Sofía N. Galicia-Haro, Alexander Gelbukh, Igor A. Bolshakov. *Identification of Composite Named Entities in a Spanish Textual Database*. In: F. Mezziane; E. Metais (Eds.). Natural Language Processing and Information Systems. 9th International Conference on Applications of Natural Languages to Information Systems, NLDB-2004, Salford, UK, June 23–25, 2004. Lecture Notes in Computer Science, N 3136, ISSN 0302-9743, ISBN 3-540-22564-1, **Springer**, 2004, pp. 395–400 ([LNCS online](#)).
- JCR impact factor 2004: 0.513.
321. Hiram Calvo, Alexander Gelbukh. *Acquiring Selectional Preferences from Untagged Text for Prepositional Phrase Attachment Disambiguation*. In: F. Mezziane; E. Metais (Eds.). Natural Language Processing and Information Systems. 9th International Conference on Applications of Natural Languages to Information Systems, NLDB-2004, Salford, UK, June 23–25, 2004. Lecture Notes in Computer Science, N 3136, ISSN 0302-9743, ISBN 3-540-22564-1, **Springer**, 2004, pp. 207–216 ([LNCS online](#)).
- JCR impact factor 2004: 0.513.
322. Igor A. Bolshakov, Alexander Gelbukh. *Synonymous Paraphrasing Using WordNet and Internet*. In: F. Mezziane; E. Metais (Eds.). Natural Language Processing and Information Systems. 9th International Conference on Applications of Natural Languages to Information Systems, NLDB-2004, Salford, UK, June 23–25, 2004. Lecture Notes in Computer Science, N 3136, ISSN 0302-9743, ISBN 3-540-22564-1, **Springer**, 2004, pp. 312–323 ([LNCS online](#)).
- JCR impact factor 2004: 0.513.
- Note: This paper is indexed in ISI JCR as Gelbukb, by their error.
323. Sofia N. Galicia-Haro, A. F. Gelbukh, I. A. Bolshakov. *Web-Based Sources for an Annotated Corpus Building and Composite Proper Name Identification*. Jesus Favela, Ernestina Menasalvas, Edgar Chávez (Eds.) Advances in Web Intelligence (**AWIC-2004**, Atlantic Web Intelligence Conference, May 16–19, 2004, Cancún, Mexico).

Lecture Notes in Artificial Intelligence, N 3034, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-22009-7, pp. 115–124 ([LNCS online](#)).

JCR impact factor 2004: 0.251.

324. [Alexander Gelbukh](#), Igor Bolshakov. *On Correction of Semantic Errors in Natural Language Texts with a Dictionary of Literal Paronyms*. Jesus Favela, Ernestina Menasalvas, Edgar Chávez (Eds.) Advances in Web Intelligence (**AWIC-2004**, 2<sup>nd</sup> International Atlantic Web Intelligence Conference, May 16–19, 2004, Cancun, Mexico). Lecture Notes in Artificial Intelligence, N 3034, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-22009-7, pp. 105–114 ([LNCS online](#)).

JCR impact factor 2004: 0.251.

325. [Hiram Calvo](#), [Alexander Gelbukh](#). *Extracting semantic categories of nouns for syntactic disambiguation from human-oriented explanatory dictionaries*. Computational Linguistics and Intelligent Text Processing (**CICLing-2004**), Lecture Notes in Computer Science, N 2945, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-21006-7, pp. 254–257 ([LNCS online](#)).

JCR impact factor 2004: 0.513.

326. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Sang Yong Han](#), Erika Hernandez-Rubio. *Automatic syntactic analysis for detection of word combinations*. Computational Linguistics and Intelligent Text Processing (**CICLing-2004**), Lecture Notes in Computer Science, N 2945, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-21006-7, pp. 240–244 ([LNCS online](#)).

JCR impact factor 2004: 0.513.

327. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Sang Yong Han](#), Erika Hernandez-Rubio. *Automatic Enrichment of a Very Large Dictionary of Word Combinations on the Basis of Dependency Formalism*. Raúl Monroy, Gustavo Arroyo-Figueroa, Luis Enrique Sucar, Humberto Sossa (Eds.). MICAI-2004, Mexican International Conference on Artificial Intelligence, Lecture Notes in Artificial Intelligence, N 2972, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-21459-3, pp. 430–437 ([LNCS online](#)).

JCR impact factor 2004: 0.251.

328. Sofia N. Galicia-Haro, [Alexander F. Gelbukh](#), Igor A. Bolshakov. *Recognition of Named Entities in Spanish Texts*. Raúl Monroy, Gustavo Arroyo-Figueroa, Luis Enrique Sucar, Humberto Sossa (Eds.). MICAI-2004, Mexican International Conference on Artificial Intelligence, Lecture Notes in Artificial Intelligence, N 2972, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-21459-3, pp. 420–429 ([LNCS online](#)).

JCR impact factor 2004: 0.251.

329. [Kwangcheol Shin](#), [Sang Yong Han](#), [Alexander Gelbukh](#). *Advanced Clustering Technique for Medical Data Using Semantic Information*. Raúl Monroy, Gustavo Arroyo-Figueroa, Luis Enrique Sucar, Humberto Sossa (Eds.). MICAI-2004, Mexican International Conference on Artificial Intelligence, Lecture Notes in Artificial

Intelligence, N 2972, **Springer**, 2004, ISSN 0302-9743, ISBN 3-540-21459-3, pp. 322–331 ([LNCS online](#)).

JCR impact factor 2004: 0.251.

330. I.A. Bolshakov, [A. Gelbukh](#). *On Semantic Classification of Modifiers*. In: B. Andersson, M. Bergholtz, P. Johannesson (Eds.) Proc. [NLDB-2002](#), 7th International Workshop on Applications of Natural Language to Information Systems, Stockholm, Sweden, June 27–38, 2002. Lecture Notes in Computer Science, N 2553, ISSN 0302-9743, ISBN 3-540-00307-X, **Springer**, pp. 172–182 ([LNCS online](#)).

JCR impact factor 2002: 0.515.

331. [Alexander Gelbukh](#) and [Grigori Sidorov](#). *Automatic Selection of Defining Vocabulary in an Explanatory Dictionary*. Proc. [CICLing-2002](#), 3<sup>rd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 17–23, 2002, Mexico City. Lecture Notes in Computer Science, N 2276, ISSN 0302-9743, ISBN 3-540-43219-1, **Springer**, pp. 300–303 ([LNCS online](#)).

JCR impact factor 2002: 0.515.

332. [Alexander Gelbukh](#), [Grigori Sidorov](#), L. Chanona-Hernández. *Compilation of a Spanish representative corpus*. Proc. [CICLing-2002](#), 3<sup>rd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 17–23, 2002, Mexico City. Lecture Notes in Computer Science, N 2276, ISSN 0302-9743, ISBN 3-540-43219-1, **Springer**, pp. 285–288 ([LNCS online](#)).

JCR impact factor 2002: 0.515.

333. Igor A. Bolshakov, Sofía N. Galicia-Haro, [Alexander Gelbukh](#). *Quantitative comparison of homonymy in Spanish EuroWordNet and traditional dictionaries*. Proc. [CICLing-2002](#), 3<sup>rd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 17–23, 2002, Mexico City. Lecture Notes in Computer Science, N 2276, ISSN 0302-9743, ISBN 3-540-43219-1, **Springer**, pp. 280–284 ([LNCS online](#)).

JCR impact factor 2002: 0.515.

334. [Manuel Montes y Gómez](#), [Alexander Gelbukh](#), [Aurelio López López](#), [Ricardo Baeza-Yates](#). *Flexible Comparison of Conceptual Graphs*. Mayr, H.C., Lazansky, J., Quirchmayr, G., Vogel, P. (Eds.), Proc. [DEXA-2001](#), 12<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, Munich, Germany, September 3–7, 2001. Lecture Notes in Computer Science N 2113, ISSN 0302-9743, ISBN 3-540-42527-6, **Springer**, pp. 102–111 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

Reprinted as:

- [Manuel Montes y Gómez](#), [Alexander Gelbukh](#), [Aurelio López López](#), [Ricardo Baeza-Yates](#). *Flexible Comparison of Conceptual Graphs*. Technical report, Serie Azul, N 102, June 2001. CIC, IPN, ISBN 970-18-6976-1, 11 pp.

335. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. *A statistical approach to the discovery of ephemeral associations among news topics*. Mayr, H.C., Lazansky, J., Quirchmayr, G., Vogel, P. (Eds.), Proc. DEXA-2001, 12<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, Munich, Germany, September 3–7, 2001. Lecture Notes in Computer Science N 2113, ISSN 0302-9743, ISBN 3-540-42527-6, **Springer**, pp. 491–500 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

Reprinted as:

- Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. *A statistical approach to the discovery of ephemeral associations among news topics*. Technical report, Serie Azul, N 103, June 2001. CIC, IPN, ISBN 970-18-6977-X, 11 pp.
336. Manuel Montes-y-Gómez, Aurelio López López, Alexander Gelbukh. *Finding Correlative Associations among News Topics*. Proc. 2<sup>nd</sup> International [CICLing-2001](#), Conference on Intelligent Text Processing and Computational Linguistics, February 18–24, 2001, Mexico City. Lecture Notes in Computer Science, N 2004, ISSN 0302-9743, ISBN 3-540-41687-0, **Springer**, pp. 521–522 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

337. Mikhail Alexandrov, Alexander Gelbukh, George Lozovoi. *Chi-square Classifier for Document Categorization*. Proc. [CICLing-2001](#), 2<sup>nd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 18–24, 2001, Mexico City. Lecture Notes in Computer Science, N 2004, ISSN 0302-9743, ISBN 3-540-41687-0, **Springer**, pp. 455–457 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

338. Alexander Gelbukh, Grigori Sidorov. *Zipf and Heaps Laws' Coefficients Depend on Language*. Proc. [CICLing-2001](#), 2<sup>nd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 18–24, 2001, Mexico City. Lecture Notes in Computer Science, N 2004, ISSN 0302-9743, ISBN 3-540-41687-0, **Springer**, pp. 332–335 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

339. Sofía N. Galicia-Haro, Alexander F. Gelbukh, Igor A. Bolshakov. *Three Mechanisms of Parser Driving for Structure Disambiguation*. Proc. [CICLing-2001](#), 2<sup>nd</sup> International Conference on Intelligent Text Processing and Computational Linguistics, February 18–24, 2001, Mexico City. Lecture Notes in Computer Science, N 2004, ISSN 0302-9743, ISBN 3-540-41687-0, **Springer**, pp. 190–192 ([LNCS online](#)).

JCR impact factor 2001: 0.415.

340. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh. *Information Retrieval with Conceptual Graph Matching*. Proc. DEXA-2000, 11<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, Greenwich,

England, September 4–8, 2000. Lecture Notes in Computer Science, N 1873, ISSN 0302-9743, ISBN 3-540-67978-2, **Springer**, pp. 312–321 ([LNCS online](#)).

JCR **impact factor** 2000: 0.390.

Revised version:

- [Manuel Montes y Gómez](#), [Aurelio López López](#), [Alexander Gelbukh](#). *Information retrieval with conceptual graph matching*. Technical report, Serie Azul, N 78, August 2000. CIC, IPN, ISBN 970-18-5430-6, 10 pp.

341. [Alexander Gelbukh](#). *Lazy Query Enrichment: A Method for Indexing Large Specialized Document Bases with Morphology and Concept Hierarchy*. Proc. DEXA-2000, 11<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, Greenwich, England, September 4–8, 2000. Lecture Notes in Computer Science, N 1873, ISSN 0302-9743, ISBN 3-540-67978-2, **Springer**, pp. 526–535 ([LNCS online](#)).

JCR **impact factor** 2000: 0.390.

Extended version:

- [Alexander F. Gelbukh](#). *Lazy query enrichment: a method for indexing large specialized document bases with morphology and concept hierarchy*. Technical report, Serie Azul, N 74, August 2000. CIC, IPN, ISBN 970-18-5426-8, 10 pp.

342. [Alexander Gelbukh](#), [Grigori Sidorov](#), [Igor A. Bolshakov](#). *Dictionary-based Method for Coherence Maintenance in Man-Machine Dialogue with Indirect Antecedents and Ellipses*. Proc. TSD-2000: Third International Workshop on Text, Speech and Dialogue, Brno, Czech Republic, September 13–16, 2000. Lecture Notes in Artificial Intelligence, N 1902, ISSN 0302-9743, ISBN 3-540-41042-2, **Springer**, pp. 357–362 ([LNCS online](#)).

JCR **impact factor** 2000: 0.253.

Revised version:

- [Alexander F. Gelbukh](#), [Grigori Sidorov](#), [Igor Bolshakov](#). *Dictionary-based method for coherence maintenance in human-machine dialogue with indirect antecedents and ellipses*. Technical report, Serie Azul, N 77, August 2000. CIC, IPN, ISBN 970-18-5492-2, 6 pp.

343. [I.A. Bolshakov](#), [A. Gelbukh](#). *A Very Large Database of Collocations and Semantic Links*. Proc. [NLDB'2000](#): 5th International Conference on Applications of Natural Language to Information Systems, Versailles, France, June 28–30, 2000. [Mokrane Bouzeghoub et al.](#) (eds.) *Natural Language Processing and Information Systems*. Lecture Notes in Computer Science N 1959, ISSN 0302-9743, **Springer**, 2001, pp. 103–114 ([LNCS online](#)).

JCR **impact factor** 2000: 0.390.

344. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. *Comparison of Conceptual Graphs*. Proc. MICAI-2000, 1<sup>st</sup> Mexican International Conference on Artificial Intelligence, Acapulco, Mexico, April 2000. In: O. Cairo, L.E. Sucar, F.J. Cantu (eds.) MICAI 2000: Advances in Artificial Intelligence. Lecture Notes in Artificial Intelligence, N 1793, ISSN 0302-9743, ISBN 3-540-67354-7, **Springer**, pp. 548–556 ([LNCS online](#)).
- JCR impact factor 2000: 0.253.
345. Manuel Montes-y-Gomez, Aurelio López López, Alexander F. Gelbukh. *Document Title Patterns in Information Retrieval*. In Václav Matoušek *et al.* (Eds.). Text, Speech and Dialogue. Proc. 2<sup>nd</sup> International Workshop TSD-99, Plzen, Czech Republic, September 13–17, 1999. Lecture Notes in Artificial Intelligence, N 1692, ISSN 0302-9743, ISBN 3-540-66494-7, **Springer**, pp. 364–367 ([LNCS online](#)).
- JCR impact factor 1999: 0.530.
- Revised version:
- Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López-López. *Information Retrieval with the Extra-Topical Information Extracted from Document Titles*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 147–152.
346. Sofia Natalia Galicia-Haro, Igor A. Bolshakov, Alexander F. Gelbukh. *A Simple Spanish Part of Speech Tagger for Detection and Correction of Accentuation Error*. In Václav Matoušek *et al.* (Eds.). Text, Speech and Dialogue. Proc. 2<sup>nd</sup> International Workshop TSD-99, Plzen, Czech Republic, September 13–17, 1999. Lecture Notes in Artificial Intelligence, N 1692, ISSN 0302-9743, ISBN 3-540-66494-7, Springer, pp. 215–218 ([LNCS online](#)).
- JCR impact factor 1999: 0.530.
- Revised version:
- Alexander F. Gelbukh, Igor A. Bolshakov, Sofia N. Galicia-Haro. *Correcting Some Spanish Accentuation Errors by means of Context Noun Group Detection*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 53–59.
347. Igor A. Bolshakov, Alexander F. Gelbukh, Sofia N. Galicia-Haro. *Electronic Dictionaries: for both Humans and Computers*. In Václav Matoušek *et al.* (Eds.). Text, Speech and Dialogue. Proc. 2<sup>nd</sup> International Workshop TSD-99, Plzen, Czech Republic, September 13–17, 1999. Lecture Notes in Artificial Intelligence, N 1692, ISSN 0302-9743, ISBN 3-540-66494-7, **Springer**, pp. 358–361 ([LNCS online](#)).
- JCR impact factor 1999: 0.530.



Revised version:

- Igor A. Bolshakov, [Alexander F. Gelbukh](#), Sofia N. Galicia-Haro. *How to Improve the Electronic Dictionaries*. In A. Guzman, R. Menchaca (eds.). Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 27–31.
- 348. [A. Gelbukh](#), [G. Sidorov](#), [A. Guzman-Arenas](#). *Use of a weighted topic hierarchy for document classification*. In Václav Matoušek *et al.* (Eds.). Text, Speech and Dialogue. Proc. 2<sup>nd</sup> International Workshop TSD-99, Plzen, Czech Republic, September 13–17, 1999. Lecture Notes in Artificial Intelligence, N 1692, ISSN 0302-9743, ISBN 3-540-66494-7, **Springer**, pp. 130–135 ([LNCS online](#)).

JCR impact factor 1999: 0.530.

## Congresos internacionales in extenso publicados por IEEE

- 349. [Alexander Gelbukh](#). *Sentiment analysis and opinion mining: Keynote address*. The 6<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2017, ISBN 978-1-5090-3012-5, IEEE, 2017, pp. 41–47.
- 350. Jereemi Bentham, [Partha Pakray](#), Goutam Majumder, Sunday Lalbiaknia, [Alexander Gelbukh](#). *Identification of Rules for Recognition of Named Entity Classes in Mizo Language*. 15<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2016. IEEE CS, ISBN 978-1-5386-7735-3, 2016, pp. 8–13; doi: [10.1109/MICAI-2016.2016.00010](#).
- 351. Sandeep Kumar Dash, [Partha Pakray](#), [Alexander Gelbukh](#). *Representing action structure through Semantic Roles of physiotherapy instructions*. The 20<sup>th</sup> International Conference on Asian Language Processing (IALP 2016), Tainan, Taiwan, 21–23 November 2016. IEEE, pp. 87-90, doi: [10.1109/IALP.2016.7875941](#).
- 352. [Partha Pakray](#), Arunangshu Pal, Goutam Majumder, [Alexander Gelbukh](#). *Resource Building and Parts-of-Speech (POS) Tagging for the Mizo Language*. 14<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI 2015. IEEE CS, ISBN 978-1-5090-0323-5, 2016, pp. 3–7.
- 353. [Alexander Gelbukh](#). *Natural language processing: Perspective of CIC-IPN. Keynote address*. International Conference on Advances in Computing, Communications and Informatics (ICACCI 2013), ISBN 978-1-4673-6217-7, IEEE Conference Publications, 2013, pp. 2112–2121, DOI: [10.1109/ICACCI.2013.6637507](#). (Note: in press, the title was misspelled as “*Natutal language processing: Perspective of CIC-IPN*”.)
- 354. [Soujanya Poria](#), [Alexander Gelbukh](#), [Erik Cambria](#), Peipei Yang, [Amir Hussain](#), [Tariq Durrani](#). *Merging SenticNet and WordNet-Affect emotion lists for sentiment analysis*. 2012 IEEE 11th International Conference on Signal Processing (ICSP), IEEE ICSP

2012. Beijing, October 21–25, 2012. Vol. 2, pp. 1251–1255; doi: [10.1109/ICoSP.2012.6491803](https://doi.org/10.1109/ICoSP.2012.6491803).
355. Soujanya Poria, Alexander Gelbukh, Erik Cambria, Dipankar Das, Sivaji Bandyopadhyay. *Enriching SenticNet Polarity Scores through Semi-Supervised Fuzzy Clustering*. Workshop on Sentiment Elicitation from Natural Text for Information Retrieval and Extraction, SENTIRE 2012. 2012 IEEE 12<sup>th</sup> International Conference on Data Mining Workshops (ICDMW), December 10, 2012, Brussels, Belgium. IEEE CS Press, 2012, ISBN 978-0-7695-4925-5, pp. 709–716; doi: [10.1109/ICDMW.2012.142](https://doi.org/10.1109/ICDMW.2012.142).
356. Miguel Rios, Alexander Gelbukh. *Recognizing Textual Entailment with a Semantic Edit Distance Metric*. 2012 11<sup>th</sup> Mexican International Conference on Artificial Intelligence (MICAI), IEEE CS Press, 2012, ISBN 978-0-7695-4904-0, doi: [10.1109/MICAI.2012.29](https://doi.org/10.1109/MICAI.2012.29), pp. 15–20.
357. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Dependency Parser Based Textual Entailment System*. Proc. of the 2010 International Conference on Artificial Intelligence and Computational Intelligence, AICI'10, October 23–24, 2010, Sanya, China, IEEE CS Press, 2010, ISBN 978-1-4244-8432-4, Vol. 1, p. 393–397.
358. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Textual Entailment and anaphora resolution*. 3<sup>rd</sup> International Conference on Advanced Computer Theory and Engineering, ICACTE 2010, Chengdu, China, August 20–22, 2010, IEEE CS Press, 2010, ISSN 2154-7491, ISBN 978-1-4244-6539-2, Volume 6, 334–336.
359. Partha Pakray, Santanu Pal, Sivaji Bandyopadhyay, Alexander Gelbukh. *Automatic Answer Validation System on English language*. 3<sup>rd</sup> International Conference on Advanced Computer Theory and Engineering, ICACTE 2010, Chengdu, China, August 20–22, 2010, IEEE CS Press, 2010, ISSN 2154-7491, ISBN 978-1-4244-6539-2, Volume 6, p. 329–333.
360. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *A hybrid textual entailment system using lexical and syntactic features*. 9<sup>th</sup> IEEE International Conference on Cognitive Informatics, ICCI 2010, Beijing, July 7–9 2010, IEEE CS Press, 2010, ISBN 978-1-4244-8041-8, p. 291–296.
361. José Antonio Zárate Marceleño, Rodolfo A. Pazos R., Alexander Gelbukh. *Customization of Natural Language Interfaces to Databases: Beyond Domain Portability*. 10<sup>th</sup> Mexican International Conference on Computer Science, ENC 2009, 21–25 September 2009, Mexico City, Mexico, IEEE CS Press, 2009, ISBN 978-0-7695-3882-7, p. 373–378.
362. René Arnulfo García-Hernández, Yulia Ledeneva, Griselda Matías Mendoza, Ángel Hernández Dominguez, Jorge Chavez, Alexander Gelbukh, José Luis Tapia Fabela. *Comparing Commercial Tools and State-of-the-Art Methods for Generating Text Summaries*. MICAI 2009. Proc. of 2009 Eighth Mexican International Conference on Artificial Intelligence, ISBN 978-0-7695-3933-1, IEEE CS Press, 2009, pp. 92–96.

363. Francisco Viveros-Jiménez, Efen Mezura-Montes, Alexander Gelbukh. *Elitistic Evolution: a Novel Micro-Population Approach for Global Optimization Problems*. MICAI 2009. Proceedings of 2009 Eighth Mexican International Conference on Artificial Intelligence, ISBN 978-0-7695-3933-1, IEEE CS Press, 2009, pp. 15–20.
364. Miguel Ángel Ríos Gaona, Alexander Gelbukh, Sivaji Bandyopadhyay. *Web-based Variant of the Lesk Approach to Word Sense Disambiguation*. MICAI 2009. Proc. of 2009 Eighth Mexican International Conference on Artificial Intelligence, ISBN 978-0-7695-3933-1, IEEE CS Press, 2009, pp. 103–107.
365. Natalia Ponomareva, Mikhail Alexandrov, Alexander Gelbukh. *Performance of Inductive Method of Model Self-Organization with Incomplete Model and Noisy Data*. MICAI-2008. Proc. 2008 Seventh Mexican International Conference on Artificial Intelligence, ISBN 978-0-7695-3441-1, IEEE CS Press, 2008, pp. 101–108.
366. Alexander Gelbukh, Sang Yong Han, Grigori Sidorov. *Compression of Boolean Inverted Files by Document Ordering*. IEEE Conference on Natural Language Processing and Knowledge Engineering, NLPKE-2003, Peking, China, IEEE Computer Society Press, ISBN 0-7803-7902-0, p. 244–249.
367. Raul Morales Carrasco, Alexander Gelbukh. *Evaluation of TnT Tagger for Spanish*. ENC-2003, 4th Mexican International Conference on Computer Science. IEEE Computer Society Press, 2003, ISBN 0-7695-1915-6, pp. 18–25.
368. Hiram Calvo, Alexander Gelbukh. *Maintaining inter-sentential continuity of semantic indices with a knowledge base*. IEEE Conference on Natural Language Processing and Knowledge Engineering, NLPKE-2003, Peking, China, IEEE Computer Society Press, ISBN 0-7803-7902-0, p. 634–637.
369. Sofía N. Galicia-Haro, Alexander Gelbukh, Igor A. Bolshakov. *Acquiring syntactic information for a government pattern dictionary from large text corpora*. IEEE International Workshop on Natural Language Processing and Knowledge Engineering, NLPKE 2001 at International IEEE SMC-2001 Conference: Systems, Man, and Cybernetics. Tucson, USA, October 7–10, 2001, **IEEE** (Abstract in printed version, *in extenso* in CD-ROM version), ISBN 0-7803-7087-2, 0-7803-7088-0 (microfiche), 0-7803-7089-9 (CD-ROM), ISSN 1062-922X, IEEE Catalog N 01CH37236C, pp. 536–542.
- Reprinted as:
- Sofía N. Galicia-Haro, Alexander Gelbukh, Igor A. Bolshakov. *Acquiring syntactic information for a government pattern dictionary from large text corpora*. Technical report, Serie Azul, N 135, March 2002. CIC, IPN, ISBN 970-18-7907-4, 10 pp.
370. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López, Ricardo Baeza-Yates. *Text mining with conceptual graphs*. IEEE International Workshop on Natural Language Processing and Knowledge Engineering, NLPKE 2001 at International IEEE SMC-2001 Conference: Systems, Man, and Cybernetics. Tucson, USA, October 7–10,

2001, **IEEE** (Abstract in printed version, *in extenso* in CD-ROM version), ISBN 0-7803-7087-2, 0-7803-7088-0 (microfiche), 0-7803-7089-9 (CD-ROM), ISSN 1062-922X, IEEE Catalog N 01CH37236C, pp. 898–903.

Reprinted as:

- [Manuel Montes y Gómez](#), [Alexander Gelbukh](#), [Aurelio López López](#), [Ricardo Baeza-Yates](#). *Text mining with conceptual graphs*. Technical report, Serie Azul, N 133, March 2002. CIC, IPN, ISBN 970-18-7905-8, 9 pp.
371. [Grigori Sidorov](#), [Alexander Gelbukh](#). *Automatic Detection of Semantically Primitive Words Using Their Reachability in an Explanatory Dictionary*. IEEE International Workshop on Natural Language Processing and Knowledge Engineering, NLPKE 2001 at Proc. International IEEE SMC-2001 Conference: Systems, Man, and Cybernetics. Tucson, USA, October 7–10, 2001, **IEEE** (Abstract in printed version, *in extenso* in CD-ROM version), ISBN 0-7803-7087-2, 0-7803-7088-0 (microfiche), 0-7803-7089-9 (CD-ROM), ISSN 1062-922X, IEEE Catalog N 01CH37236C, pp. 1683–1687.

Revised version:

- [Grigori Sidorov](#) and [Alexander Gelbukh](#). *Automatic detection of semantically primitive words using their reachability in an explanatory dictionary*. Technical report, Serie Azul, N 130, March 2002. CIC, IPN, ISBN 970-18-7902-3, 9 pp.
372. [Sofía N. Galicia-Haro](#), [Alexander Gelbukh](#), [Igor A. Bolshakov](#). *Combining dependency and constituent-based resources for structure disambiguation*. IEEE International Workshop on Natural Language Processing and Knowledge Engineering, NLPKE 2001 at International IEEE SMC-2001 Conference: Systems, Man, and Cybernetics. Tucson, USA, October 7–10, 2001, **IEEE** (Abstract in printed version, *in extenso* in CD-ROM version), ISBN 0-7803-7087-2, 0-7803-7088-0 (microfiche), 0-7803-7089-9 (CD-ROM), ISSN 1062-922X, IEEE Catalog N 01CH37236C, pp. 2873–2879.

Reprinted as:

- [Sofía N. Galicia-Haro](#), [Alexander Gelbukh](#), [Igor A. Bolshakov](#). *Combining dependency and constituent-based resources for structure disambiguation*. Technical report, Serie Azul, N 131, March 2002. CIC, IPN, ISBN 970-18-7903-1, 9 pp.
373. [Igor A. Bolshakov](#) and [Alexander F. Gelbukh](#). *Yet another application of inference in computational linguistics*. IEEE International Workshop on Natural Language Processing and Knowledge Engineering, NLPKE 2001 at International IEEE SMC-2001 Conference: Systems, Man, and Cybernetics. Tucson, USA, October 7–10, 2001, **IEEE** (Abstract in printed version, *in extenso* in CD-ROM version), ISBN 0-7803-7087-2, 0-7803-7088-0 (microfiche), 0-7803-7089-9 (CD-ROM), ISSN 1062-922X, IEEE Catalog N 01CH37236C, pp. 1688–1692.

Reprinted as:

- Igor A. Bolshakov and [Alexander F. Gelbukh](#). *Yet another application of inference in computational linguistics*. Technical report, Serie Azul, N 132, March 2002. CIC, IPN, ISBN 970-18-7904-X, 8 pp.
374. [Alexander Gelbukh](#), [Grigori Sidorov](#), Igor A. Bolshakov. *Coherence Maintenance in Human-Machine Dialogue: Indirect Antecedents and Ellipses*. Proc. DEXA-2000, 11<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, NLIS-2000, 2<sup>nd</sup> International Workshop on Natural Language and Information Systems, Greenwich, England, September 4–8, 2000, ISBN 0-7695-0680-1, ISSN 1529-4188. **IEEE Computer Society Press**, pp. 96–100.

Revised version:

- [Alexander F. Gelbukh](#), [Grigori Sidorov](#), Igor Bolshakov. *Coherence maintenance in human-machine dialogue: indirect antecedents and ellipses*. Technical report, Serie Azul, N 76, August 2000. CIC, IPN, ISBN 970-18-5428-4, 8 pp.
375. M. Alexandrov, [A. Gelbukh](#), P. Makagonov. *Evaluation of Thematic Structure of Multidisciplinary Documents and Document Flows*. Proc. DEXA-2000, 11<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, NLIS-2000, 2<sup>nd</sup> International Workshop on Natural Language and Information Systems, Greenwich, England, September 4–8, 2000, ISBN 0-7695-0680-1, ISSN 1529-4188. **IEEE Computer Society Press**, pp. 125–129.

Revised version:

- Mikhail Alexandrov, [Alexander F. Gelbukh](#), Pavel Makagonov. *Evaluation of thematic structure of multidisciplinary documents and document flows*. Technical report, Serie Azul, N 75, August 2000. CIC, IPN, ISBN 970-18-5427-6, 9 pp.
376. [Alexander Gelbukh](#), [Grigori Sidorov](#), [A. Guzmán-Arenas](#). *Document comparison with a weighted topic hierarchy*. Proc. DEXA-99, 10<sup>th</sup> International Conference and Workshop on Database and Expert Systems Applications, DAUDD'99, 1<sup>st</sup> International Workshop on Document Analysis and Understanding for Document Databases, Florence, Italy, September 1, 1999, ISBN 0-7695-0281-4, ISBN 0-7695-0283-0, Library of Congress 99-64235, **IEEE Computer Society Press**, pp. 566–570.
377. [A. Gelbukh](#), [G. Sidorov](#), [A. Guzmán-Arenas](#). *A Method of Describing Document Contents through Topic Selection*. Proc. SPIRE'99, International Symposium on String Processing and Information Retrieval, Cancun, Mexico, September 22–24, ISBN 0-7695-0268-7, ISBN 0-7695-0270-9, Library of Congress 99-64139, **IEEE Computer Society Press**, 1999, pp. 73–80.

Revised version:

- [Alexander F. Gelbukh](#), [Grigori Sidorov](#), [Adolfo Guzmán-Arenas](#). *Topical Summarization with a Weighted Concept Tree*. In A. Guzman, R. Menchaca (eds.).



Selected papers CIC-1999, CIC, IPN, Mexico City, 2000, ISBN 970-18-4250-2, pp. 45–52.

### Otros congresos internacionales *in extenso*

378. Snehlata, [Neetu Mittal](#), [Alexander Gelbukh](#). *Change Detection in Remote-Sensed Data by Particle Swarm Optimized Edge Detection Image Segmentation Technique*. In: Raj J.S., Iliyasa A.M., Bestak R., Baig Z.A. (eds). Innovative Data Communication Technologies and Application. Proceedings of ICIDCA 2020. Lecture Notes on Data Engineering and Communications Technologies, vol 59, 2021, ISBN 978-981-15-9651-3. Springer, Singapore, pp. 809–817; doi: [10.1007/978-981-15-9651-3\\_65](https://doi.org/10.1007/978-981-15-9651-3_65).
379. [Segun Taofeek Aroyehun](#), [Alexander Gelbukh](#). *Automatically Predicting Judgement Dimensions of Human Behaviour*. ALTA 2020, 18th Annual Workshop of the Australasian Language Technology Association, 14–15 January 2021, virtual workshop.
380. [Segun Taofeek Aroyehun](#), [Alexander Gelbukh](#). *NLP-CIC at HASOC 2020: Multilingual Offensive Language Detection using All-in-one Model*. In: Parth Mehta, Thomas Mandl, Prasenjit Majumder, Mandar Mitra (eds.). FIRE-WN 2020, FIRE 2020 Working Notes, Working Notes of FIRE 2020 - Forum for Information Retrieval Evaluation, Hyderabad, India, December 16-20, 2020. CEUR Workshop Proceedings, CEUR-WS.org, ISSN 1613-0073, vol. 2826, 2021, pp. 331–335.
381. [Maaz Amjad](#), [Grigori Sidorov](#), [Alisa Zhila](#), [Alexander Gelbukh](#), [Paolo Rosso](#). *Overview of the Shared Task on Fake News Detection in Urdu at FIRE 2020*. In: Parth Mehta, Thomas Mandl, Prasenjit Majumder, Mandar Mitra (eds.). FIRE-WN 2020, FIRE 2020 Working Notes, Working Notes of FIRE 2020 - Forum for Information Retrieval Evaluation, Hyderabad, India, December 16-20, 2020. CEUR Workshop Proceedings, CEUR-WS.org, ISSN 1613-0073, vol. 2826, 2021, pp. 434–446.
382. [Maaz Amjad](#), [Grigori Sidorov](#), [Alisa Zhila](#), [Alexander Gelbukh](#), [Paolo Rosso](#). *UrduFake@FIRE2020: Shared Track on Fake News Identification in Urdu*. FIRE 2020: Forum for Information Retrieval Evaluation. December 2020, pp. 37–40; doi: [10.1145/3441501.3441541](https://doi.org/10.1145/3441501.3441541).
383. Jason Angel, Carlos A. Rodriguez-Diaz, [Alexander Gelbukh](#), [Sergio Jimenez](#). *NLP-CIC @ DIACR-Ita: POS and Neighbor Based Distributional Models for Lexical Semantic Change in Diachronic Italian Corpora*. EVALITA 2020, 7th Evaluation Campaign of Natural Language Processing and Speech Tools for Italian. Final Workshop. Online event, December 17th, 2020. CEUR Workshop Proceedings, CEUR-WS.org, ISSN 1613-0073, vol. 2765, 2020.
384. Jason Angel, [Segun Taofeek Aroyehun](#), [Alexander Gelbukh](#). *NLP-CIC @ PRELEARN: Mastering Prerequisites Relations, from Handcrafted Features to Embeddings*. EVALITA 2020, 7th Evaluation Campaign of Natural Language Processing and



- Speech Tools for Italian. Final Workshop. Online event, December 17th, 2020. CEUR Workshop Proceedings, CEUR-WS.org, ISSN 1613-0073, vol. 2765, 2020.
385. Navonil Majumder, Pengfei Hong, Shanshan Peng, Jiankun Lu, Deepanway Ghosal, Alexander Gelbukh, Rada Mihalcea, Soujanya Poria. *MIME: MIMicking Emotions for Empathetic Response Generation*. EMNLP 2020, Conference on Empirical Methods in Natural Language Processing, November 2020. Association for Computational Linguistics, pp. 8968–8979; doi: [10.18653/v1/2020.emnlp-main.721](https://doi.org/10.18653/v1/2020.emnlp-main.721).
  386. Deepanway Ghosal, Navonil Majumder, Alexander Gelbukh, Rada Mihalcea, Soujanya Poria. *COSMIC: COMmonSense knowledge for eMotion Identification in Conversations*. Findings of the Association for Computational Linguistics: EMNLP 2020. November 2020. Association for Computational Linguistics, pp. 2470–2481; doi: [10.18653/v1/2020.findings-emnlp.224](https://doi.org/10.18653/v1/2020.findings-emnlp.224).
  387. Jason Angel, Segun Taofeek Aroyehun, Antonio Tamayo, Alexander Gelbukh. *NLP-CIC at SemEval-2020 Task 9: Analysing Sentiment in Code-switching Language Using a Simple Deep-learning Classifier*. 14th Workshop on Semantic Evaluation, December 2020, Barcelona (online). International Committee for Computational Linguistics, pp. 957–962.
  388. Raza Ul Mustafa, Noman Ashraf, Fahad Shabbir Ahmed, Javed Ferzund, Basit Shahzad, Alexander Gelbukh. *A Multiclass Depression Detection in Social Media Based on Sentiment Analysis*. 17th International Conference on Information Technology–New Generations (ITNG 2020). Advances in Intelligent Systems and Computing, ISSN: 2194-5357, vol 1134. Springer, 2020, pp. 659–662; doi: [10.1007/978-3-030-43020-7\\_89](https://doi.org/10.1007/978-3-030-43020-7_89).
  389. Noman Ashraf, Rabia Mustafa, Grigori Sidorov, Alexander Gelbukh. *Individual vs. Group Violent Threats Prediction in Online Discussions Using Deep Learning*. WWW '20: Companion Proceedings of the Web Conference 2020, April 20–24, 2020, Taipei, Taiwan. ACM, pp. 629–633; doi: [10.1145/3366424.3385778](https://doi.org/10.1145/3366424.3385778).
  390. Deepanway Ghosal, Navonil Majumder, Soujanya Poria, Niyati Chhaya, Alexander Gelbukh. *DialogueGCN: A Graph Convolutional Neural Network for Emotion Recognition in Conversation*. Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), November 3–7, 2019, Hong Kong, China, Association for Computational Linguistics, pp. 154–164.
  391. Carolina Martín del Campo Rodríguez, Daniel Alejandro Pérez Álvarez, Christian Efraín Maldonado Sifuentes, Grigori Sidorov, Ildar Batyrshin, Alexander Gelbukh. *Authorship Attribution through Punctuation n-grams and Averaged Combination of SVM*. PAN Lab on Digital Text Forensics and Stylometry. In: Working Notes of CLEF 2019 - Conference and Labs of the Evaluation Forum, Lugano, Switzerland, September

- 9–12, 2019. CEUR Workshop Proceedings, ISSN 1613-0073, vol. 2380, paper 242, 2019.
392. Muhammad Hammad Fahim Siddiqui, Iqra Ameer, Alexander Gelbukh, Grigori Sidorov. *Bots and Gender Profiling on Twitter*. PAN Lab on Digital Text Forensics and Stylometry. In: Working Notes of CLEF 2019 - Conference and Labs of the Evaluation Forum, Lugano, Switzerland, September 9–12, 2019. CEUR Workshop Proceedings, ISSN 1613-0073, vol. 2380, paper 186, 2019.
393. Segun Taofeek Aroyehun, Alexander Gelbukh. *Detection of Adverse Drug Reaction in Tweets Using a Combination of Heterogeneous Word Embeddings*. Proceedings of the Fourth Social Media Mining for Health Applications (#SMM4H) Workshop & Shared Task, ACL. August, 2019, Florence, Italy, Association for Computational Linguistics, 2019, pp. 133–135, doi: [10.18653/v1/W19-3224](https://doi.org/10.18653/v1/W19-3224).
394. Iqra Ameer, Muhammad Hammad Fahim Siddiqui, Grigori Sidorov, Alexander Gelbukh. *CIC at SemEval-2019 Task 5: Simple Yet Very Efficient Approach to Hate Speech Detection, Aggressive Behavior Detection, and Target Classification in Twitter*. \*SEMEVAL, Proceedings of the 13th International Workshop on Semantic Evaluation, June 2019, Association for Computational Linguistics, 2019, pp. 382–386, doi: [10.18653/v1/S19-2067](https://doi.org/10.18653/v1/S19-2067).
395. Navonil Majumder, Soujanya Poria, Devamanyu Hazarika, Rada Mihalcea, Alexander Gelbukh, Erik Cambria. *DialogueRNN: An Attentive RNN for Emotion Detection in Conversations*. 33rd AAAI Conference on Artificial Intelligence (AAAI-19), January 27 to February 1, 2019. Honolulu, USA, pp. 6818–6825, doi: [10.1609/aaai.v33i01.33016818](https://doi.org/10.1609/aaai.v33i01.33016818).
396. Navonil Majumder, Soujanya Poria, Alexander Gelbukh, Md. Shad Akhtar, Erik Cambria, Asif Ekbal. *IARM: Inter-Aspect Relation Modeling with Memory Networks in Aspect-Based Sentiment Analysis*. EMNLP 2018: Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing. Brussels, Belgium, October 31 – November 4, 2018. Association for Computational Linguistics, pp. 3402–3411.
397. Segun Taofeek Aroyehun, Alexander Gelbukh. *Automatic Identification of Drugs and Adverse Drug Reaction Related Tweets*. Proceedings of the 3rd Social Media Mining for Health Applications (SMM4H) Workshop & Shared Task. In conjunction with EMNLP 2018. Brussels, Belgium, October 31, 2018. Association for Computational Linguistics, pp. 54–55.
398. Segun Taofeek Aroyehun, Alexander Gelbukh. *Aggression Detection in Social Media: Using Deep Neural Networks, Data Augmentation, and Pseudo Labeling*. Proceedings of the First Workshop on Trolling, Aggression and Cyberbullying (TRAC-2018), August 2018, Santa Fe, New Mexico, USA, collocated with COLING 2018. Association for Computational Linguistics, 2018, pp. 90–97.

Best result out of 30 participating systems for the task (on the Facebook dataset).

399. Segun Taofeek Aroyehun, Jason Angel, Daniel Alejandro Pérez Alvarez, Alexander Gelbukh. *Complex Word Identification: Convolutional Neural Network vs. Feature Engineering*. In *Proceedings of the 13<sup>th</sup> Workshop on Innovative Use of NLP for Building Educational Applications*, New Orleans, United States, 2018, ISBN 978-1-948087-11-7. Proceedings of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies. Association for Computational Linguistics, pp. 322–327.
400. Fernando Monroy-Tenorio, Ildar Batyrshin, Alexander Gelbukh, Valery Solovyev, Nailya Kubysheva, Imre Rudas. *Correlation Measures for Bipolar Rating Profiles*. Fuzzy Logic in Intelligent System Design. NAFIPS 2017. Advances in Intelligent Systems and Computing, ISSN: 2194-5357, vol. 648, 2018, Springer, pp. 22–32, doi: [10.1007/978-3-319-67137-6\\_3](https://doi.org/10.1007/978-3-319-67137-6_3).
401. Francisco Javier García-López, Ildar Batyrshin, Alexander Gelbukh. *Dynamic Local Trend Associations in Analysis of Comovements of Financial Time Series*. Fuzzy Logic in Intelligent System Design. NAFIPS 2017. Advances in Intelligent Systems and Computing, ISSN: 2194-5357, vol. 648, 2018, Springer, pp. 181–188, doi: [10.1007/978-3-319-67137-6\\_20](https://doi.org/10.1007/978-3-319-67137-6_20).
402. Iliia Markov, Helena Gómez-Adorno, Grigori Sidorov, Alexander Gelbukh. *The Winning Approach to Cross-Genre Gender Identification in Russian at RUSProfiling 2017*. Working notes of FIRE 2017 - Forum for Information Retrieval Evaluation. Bangalore, India, December 8–10, 2017. CEUR Workshop Proceedings, ISSN 1613-0073, vol. 2036, CEUR-WS.org, 2017, pp. 20–24.
403. Somnath Banerjee, Partha Pakray, Riyanka Manna, Dipankar Das, Alexander Gelbukh. *NITMZ-JU at IJCNLP-2017 Task 4: Customer Feedback Analysis*. IJCNLP 2017. The Eighth International Joint Conference on Natural Language Processing. Proceedings of the IJCNLP 2017, *Shared Tasks*. November 27 – December 1, 2017. Taipei, Taiwan. Asian Federation of Natural Language Processing, pp. 180–183.
404. Carolina Fócil-Arias, Jorge Zúñiga, Grigori Sidorov, Ildar Batyrshin, Alexander Gelbukh. *A tweets classifier based on cosine similarity*. Working Notes of CLEF 2017 - Conference and Labs of the Evaluation forum. Dublin, Ireland, September 11–14, 2017. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1866, CEUR-WS.org, 2017, 10 pp.
405. Divyanshu Bhardwaj, Partha Pakray, Jereemi Bentham, Saurav Saha, Alexander Gelbukh. *Question Answering System for Frequently Asked Questions*. CLiC-it & EVALITA 2016. Proceedings CLiC-it 2016 and EVALITA 2016. Proceedings of Third Italian Conference on Computational Linguistics (CLiC-it 2016) & Fifth Evaluation Campaign of Natural Language Processing and Speech Tools for Italian. Final Workshop (EVALITA 2016). Napoli, Italy, December 5–7, 2016. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1749, CEUR-WS.org, 2016, 5 pp.

406. Sandip Sarkar, Saurav Saha, Jereemi Bentham, Partha Pakray, Dipankar Das, Alexander Gelbukh. *NLP-NITMZ@DPIL-FIRE2016: Language Independent Paraphrases Detection*. Working notes of FIRE 2016 - Forum for Information Retrieval Evaluation. Kolkata, India, December 7–10, 2016. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1737, CEUR-WS.org, 2016, pp. 256–259.
407. Iliia Markov, Helena Gómez-Adorno, Grigori Sidorov, Alexander Gelbukh. *Adapting Cross-Genre Author Profiling to Language and Corpus*. Digital Text Forensics (PAN). CLEF2016 Working Notes. Working Notes of CLEF 2016 - Conference and Labs of the Evaluation forum. Évora, Portugal, 5–8 September, 2016. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1609, CEUR-WS.org, 2016, pp. 947–955.
408. Sandip Sarkar, Dipankar Das, Partha Pakray, Alexander Gelbukh. *JUNITMZ at SemEval-2016 Task 1: Identifying Semantic Similarity Using Levenshtein Ratio*. Proceedings of SemEval-2016. San Diego, California, June 16–17, 2016. Association for Computational Linguistics, pp. 702–705.
409. Miguel A. Sanchez-Perez, Alexander Gelbukh, Grigori Sidorov. *Dynamically Adjustable Approach through Obfuscation Type Recognition. Notebook for PAN at CLEF 2015*. Working Notes of CLEF 2015 - Conference and Labs of the Evaluation forum. Toulouse, France, September 8–11, 2015. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1391, CEUR-WS.org, 2015.
410. Juan-Pablo Posadas-Durán, Helena Gómez-Adorno, Iliia Markov, Grigori Sidorov, Ildar Batyrshin, Alexander Gelbukh, Obdulia Pichardo Lagunas. *Syntactic N-grams as Features for the Author Profiling Task. Notebook for PAN at CLEF 2015*. Working Notes of CLEF 2015 - Conference and Labs of the Evaluation forum. Toulouse, France, September 8–11, 2015. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1391, CEUR-WS.org, 2015.
411. Soujanya Poria, Erik Cambria, Alexander Gelbukh. *Deep Convolutional Neural Network Textual Features and Multiple Kernel Learning for Utterance-level Multimodal Sentiment Analysis*. Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing, EMNLP 2015, Lisbon, Portugal, 17–21 September 2015, Association for Computational Linguistics, pp. 2539–2544.
412. Claudia Perez-Martinez, Gabriel Lopez Morteo, Magally Martinez Reyes, Alexander Gelbukh. *Automatic Generation of Learning Path*. Doctoral Consortium - DCAART, 2015, Lisbon, Portugal, pp. 35–39.
413. Sergio Jimenez, George Dueñas, Julia Baquero, Alexander Gelbukh. *UNAL-NLP: Combining Soft Cardinality Features for Semantic Textual Similarity, Relatedness and Entailment*. Proceedings of the 8th International Workshop on Semantic Evaluation (SemEval 2014), Dublin, Ireland, August 23–24, 2014, ISBN 978-1-941643-24-2, pp. 732–742.

414. Miguel Sanchez-Perez, Grigori Sidorov, Alexander Gelbukh. *The Winning Approach to Text Alignment for Text Reuse Detection at PAN 2014*. In: L. Cappellato, N. Ferro, M. Halvey, W. Kraaij (eds.). Notebook for PAN at CLEF 2014. CLEF 2014. CLEF2014 Working Notes. Sheffield, UK, September 15–18, 2014. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1180, CEUR-WS.org, 2014, pp. 1004–1011.
- Best result out of 11 participating systems for the task.
- This paper can be also mistakenly indexed as “A Winning Approach to Text Alignment for Text Reuse Detection at PAN 2014”.
415. Helena Gómez-Adorno, Grigori Sidorov, David Pinto, Alexander Gelbukh. *Graph-based Approach to the Question Answering Task Based on Entrance Exams*. CLEF 2014. CLEF2014 Working Notes. Sheffield, UK, September 15–18, 2014. CEUR Workshop Proceedings, ISSN 1613-0073, Vol. 1180, CEUR-WS.org, 2014, pp. 1395–1403.
416. Soujanya Poria, Erik Cambria, Lun-Wei Ku, Chen Gui, Alexander Gelbukh. *A Rule-Based Approach to Aspect Extraction from Product Reviews*. Proceedings of the Second Workshop on Natural Language Processing for Social Media (SocialNLP), August 24, 2014, Dublin, Ireland, ISBN 978-1-873769-45-4, pp. 28–37. **Invited paper**.
417. Alisa Zhila, Alexander Gelbukh. *Open Information Extraction for Spanish Language based on Syntactic Constraints*. ACL 2014 Student Research Workshop, Baltimore, Maryland, USA, June 22–27, 2014, Association for Computational Linguistics, pp. 78–85.
418. Soujanya Poria, Nir Ofek, Alexander Gelbukh, Amir Hussain, Lior Rokach. *Dependency Tree-Based Rules for Concept-Level Aspect-Based Sentiment Analysis*. Semantic Web Evaluation Challenge. SemWebEval 2014 at ESWC 2014, Anissaras, Crete, Greece, May 25–29, 2014, Revised Selected Papers. Communications in Computer and Information Science, N 475, ISSN 1865-0929, ISBN 978-3-319-12023-2, 2014, pp 41–47, doi: [10.1007/978-3-319-12024-9\\_5](https://doi.org/10.1007/978-3-319-12024-9_5).
419. Erik Cambria, Soujanya Poria, Alexander Gelbukh, Kenneth Kwok. *Sentic API: A Common-Sense Based API for Concept-Level Sentiment Analysis*. In: Matthew Rowe, Milan Stankovic, Aba-Sah Dadzie (Eds.). Proceedings of the 4th Workshop on Making Sense of Microposts (#Microposts2014), co-located with the 23rd International World Wide Web Conference (WWW 2014), Seoul, Korea, April 7th, 2014. CEUR Workshop Proceedings (CEUR-WS.org), ISSN 1613-0073, Vol. 1141, pp. 19–24.
420. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Applications of Textual Entailment*. In: ECIR 2013 – Doctoral Consortium. 35th European Conference on Information Retrieval (ECIR 2013), March 24, 2013, Moscow, Russia, pp. 34–39.
421. Claudia Becerra, Sergio Jimenez, Alexander Gelbukh. *Towards User Profile-based Interfaces for Exploration of Large Collections of Items*. Proc. of 3rd Workshop on



- Human Decision Making in Recommender Systems in conjunction with the 7th ACM Conference on Recommender Systems (RecSys 2013), Hong Kong, China, October 12, 2013. CEUR-WS.org, CEUR Workshop Proceedings, [Vol. 1050](#), ISSN 1613-0073, 2013, pp. 9–16.
422. Pinaki Bhaskar, Somnath Banerjee, [Partha Pakray](#), Samadrita Banerjee, [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *A Hybrid Question Answering System for Multiple Choice Question (MCQ)*. Proc. of Question Answering for Machine Reading Evaluation (QA4MRE) at CLEF 2013 Conference and Labs of the Evaluation Forum. CLEF2013 Working Notes. Working Notes for CLEF 2013 Conference. Valencia, Spain, September 23-26, 2013. CEUR Workshop Proceedings, [Vol. 1179](#), ISSN 1613-0073, 18 pp.
- [Best result out of 19 participating systems for the task.](#)
423. Somnath Banerjee, Pinaki Bhaskar, [Partha Pakray](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *Multiple Choice Question (MCQ) Answering System for Entrance Examination*. Proc. of Question Answering for Machine Reading Evaluation (QA4MRE) at CLEF 2013 Conference and Labs of the Evaluation Forum. Working Notes. Working Notes for CLEF 2013 Conference. Valencia, Spain, September 23-26, 2013. CEUR Workshop Proceedings, [Vol. 1179](#), ISSN 1613-0073, 18 pp.
424. [Partha Pakray](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). *Binary-class and Multi-class based Textual Entailment System*. [Proceedings](#) of the 10<sup>th</sup> NTCIR Conference on Evaluation of Information Access Technologies, June 18–21, 2013, Tokyo, Japan. National Institute of Informatics, [ISBN 978-4-86049-062-1](#), 6 pp.
425. A. Zhila, [A. Gelbukh](#). *Comparison of open information extraction for English and Spanish*. 19<sup>th</sup> Annual International Conference [Dialog 2013](#), Bekasovo, Russia, May 20 to June 2, 2013. Computational Linguistics and Intellectual Technologies. Papers from the Annual International Conference “Dialogue” (2013). Issue 12, Volume 1, pp. 794–802.
426. Christopher Horn, Alisa Zhila, [Alexander Gelbukh](#), Roman Kern, Elisabeth Lex. *Using Factual Density to Measure Informativeness of Web Documents*. [Proceedings of the 19th Nordic Conference on Computational Linguistics NODALIDA 2013, May 22–24, 2013, Oslo Norway](#), Linköping Electronic Conference Proceedings; Volume 85, ISSN 1650-3740, ISBN 978-91-7519-589-6, Linköping University Electronic Press, pp. 227–238.
427. Sergio Jimenez, Claudia Becerra, [Alexander Gelbukh](#). *SOFTCARDINALITY-CORE: Improving Text Overlap with Distributional Measures for Semantic Textual Similarity*. [\\*SEM 2013: The Second Joint Conference on Lexical and Computational Semantics. Volume 1: Proceedings of the Main Conference and the Shared Task: Semantic Textual Similarity](#). June 13–14, 2013, Atlanta, Georgia, USA. Collocated with NAACL 2013. The Association for Computational Linguistics, ISBN 978-1-937284-48-0; pp. 194–201.



428. Sergio Jimenez, Claudia Becerra, Alexander Gelbukh. *SOFTCARDINALITY: Learning to Identify Directional Cross-Lingual Entailment from Cardinalities and SMT*. \*SEM 2013: The Second Joint Conference on Lexical and Computational Semantics. Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013). June 13–14, 2013, Atlanta, Georgia, USA. Collocated with NAACL 2013. The Association for Computational Linguistics, ISBN 978-1-937284-49-7; pp. 34–38.
429. Sergio Jimenez, Claudia Becerra, Alexander Gelbukh. *UNAL: Discriminating between Literal and Figurative Phrasal Usage Using Distributional Statistics and POS tags*. \*SEM 2013: The Second Joint Conference on Lexical and Computational Semantics. Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013). June 13–14, 2013, Atlanta, Georgia, USA. Collocated with NAACL 2013. The Association for Computational Linguistics, ISBN 978-1-937284-49-7; pp. 114–117.
430. Sergio Jimenez, Claudia Becerra, Alexander Gelbukh. *SOFTCARDINALITY: Hierarchical Text Overlap for Student Response Analysis*. \*SEM 2013: The Second Joint Conference on Lexical and Computational Semantics. Volume 2: Proceedings of the Seventh International Workshop on Semantic Evaluation (SemEval 2013). June 13–14, 2013, Atlanta, Georgia, USA. Collocated with NAACL 2013. The Association for Computational Linguistics, ISBN 978-1-937284-49-7; pp. 280–284.
431. Partha Pakray, Pinaki Bhaskar, Somnath Banerjee, Sivaji Bandyopadhyay, Alexander Gelbukh. *An Automatic System for Modality and Negation Detection*. In: Pamela Forner, Jussi Karlgren and Christa Womser-Hacker (Eds.). *CLEF 2012 Evaluation Labs and Workshop, Online Working Notes*. ISBN 978-88-904810-3-1, ISSN 2038-4963. Track: Question Answering for Machine Reading Evaluation (QA4MRE), CLEF 2012, Rome, Italy, September 2012, 5 pp.
432. Pinaki Bhaskar, Partha Pakray, Somnath Banerjee, Samadrita Banerjee, Sivaji Bandyopadhyay, Alexander Gelbukh. *Question Answering System for QA4MRE@CLEF 2012*. In: Pamela Forner, Jussi Karlgren and Christa Womser-Hacker (Eds.). *CLEF 2012 Evaluation Labs and Workshop, Online Working Notes*. ISBN 978-88-904810-3-1, ISSN 2038-4963. Track: Question Answering for Machine Reading Evaluation (QA4MRE). CLEF 2012, Rome, Italy, September 2012, 12 pp.  
Best result out of 21 participating systems for the task.
433. Snehasis Neogi, Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *JU\_CSE\_NLP: Language Independent Cross-lingual Textual Entailment System*. Proc. of \*SEM 2012: The First Joint Conference on Lexical and Computational Semantics. Collocated with NAACL-HLT 2012. June 7–8, Montreal, Canada. ISBN 978-1-937284-22-0, Association for Computational Linguistics; pp. 689–695.
434. Sergio Jimenez, Claudia Becerra, Alexander Gelbukh. *Soft Cardinality + ML: Learning Adaptive Similarity Functions for Cross-lingual Textual Entailment*. Proc. of

- [\\*SEM 2012](#): The First Joint Conference on Lexical and Computational Semantics. Collocated with NAACL-HLT 2012. June 7–8, Montreal, Canada. ISBN 978-1-937284-22-0, Association for Computational Linguistics; pp. 684–688.
435. Snehasis Neogi, [Partha Pakray](#), [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). [JU\\_CSE\\_NLP: Multi-grade Classification of Semantic Similarity between Text Pairs](#). [Proc. of \\*SEM 2012: The First Joint Conference on Lexical and Computational Semantics](#). Collocated with NAACL-HLT 2012. June 7–8, Montreal, Canada. ISBN 978-1-937284-22-0, Association for Computational Linguistics; pp. 571–574.
436. Sergio Jimenez, Claudia Becerra, [Alexander Gelbukh](#). [Soft Cardinality: A Parameterized Similarity Function for Text Comparison](#). [Proc. of \\*SEM 2012: The First Joint Conference on Lexical and Computational Semantics](#). Collocated with NAACL-HLT 2012. June 7–8, Montreal, Canada. ISBN 978-1-937284-22-0, Association for Computational Linguistics; pp. 449–453.
437. A. Zhila, [A. Gelbukh](#). [Exploring context clustering for term translation](#). 18<sup>th</sup> Annual International Conference [Dialog 2012](#), Bekasovo, Russia, May 30 to June 3, 2012. Computational Linguistics and Intellectual Technologies, 11 (18), Vol. 1, 2012, pp. 716–725.
438. [Sofía N. Galicia-Haro](#) and [Alexander Gelbukh](#). [Web-based contrastive comparison of Age-Related Temporal Phrases in Spanish and French](#). Oliver Čulo, Silvia Hansen-Schirra, Johannes Gutenberg (Eds.). Contrastive Linguistics, Translation Studies, Machine Translation – what can we learn from each other? Pre-conference Workshop GSCL 2011, Hamburg, 27th September, 2011, Universität Mainz.
439. Sergio Jiménez, [Alexander Gelbukh](#). [Human Factors for Assessing the Similarity of Texts in Entity Resolution](#). Miguel González Mendoza, Oscar Herrera Alcántara (Eds.). Proceedings of the Doctoral Consortium at the 10<sup>th</sup> Mexican International Conference on Artificial Intelligence, MICAI-2011, November 28, 2011, Puebla, Mexico, ISBN 978-607-95367-4-9.
440. Claudia Becerra, Fabio Gonzalez, [Alexander Gelbukh](#). [Visualizable and explicable recommendations obtained from price estimation functions](#). In: Alexander Felfernig, Li Chen, Monika Mandl, Martijn Willemsen, Dirk Bollen, Michael Ekstrand (eds.). Joint proceedings of the RecSys 2011 Workshop on Human Decision Making in Recommender Systems (Decisions@RecSys'11) and User-Centric Evaluation of Recommender Systems and Their Interfaces-2 (UCERSTI 2) affiliated with the 5th ACM Conference on Recommender Systems. Chicago, USA, October 23th and 26th, 2011. [CEUR Workshop Proceedings](#), vol. 811, ISSN 1613-0073, 2011, pp. 27–34.
441. [Partha Pakray](#), Snehasis Neogi, Pinaki Bhaskar, Soujanya Poria, [Sivaji Bandyopadhyay](#), [Alexander Gelbukh](#). [A Textual Entailment System using Anaphora Resolution](#). System Report. [Text Analysis Conference](#), Recognizing Textual

- Entailment Track (TAC RTE). Notebook. November 14–15, 2011, National Institute of Standards and Technology, Gaithersburg, Maryland USA, 2011.
442. Partha Pakray, Snehasis Neogi, Sivaji Bandyopadhyay, Alexander Gelbukh. *A Textual Entailment System using Web based Machine Translation System*. NTCIR-9: The 9th NTCIR Workshop Meeting “Evaluation of Information Access Technologies: Information Retrieval, Question Answering, and Cross-Lingual Information Access”. RITE competition: Recognizing Inference in TExt@NTCIR9. National Institute of Informatics (NII), National Center of Sciences, Tokyo, Japan. December 6–9, 2011.
443. Partha Pakray, Pinaki Bhaskar, Somnath Banerjee, Bidhan Chandra Pal, Sivaji Bandyopadhyay, Alexander Gelbukh. *A Hybrid Question Answering System based on Information Retrieval and Answer Validation*. CLEF 2011 Workshop on Question Answering for Machine Reading Evaluation (QA4MRE). CLEF 2011 Labs and Workshop. 19–22 September, Amsterdam. Notebook Papers. ISBN 978-88-904810-1-7; ISSN 2038-4726. 2011, 16 pp.
- Best result out of 25 participating systems for the task.
444. I.A. Bolshakov, A.F. Gelbukh. *A large electronic dictionary as polythematic guide and shaper of queries to the Web* (in Russian: *Большой электронный словарь как политематический справочник и формирователь запросов к Интернету*). International conference Dialog-2011, Russia, May 2011, p. 131–141.
445. Partha Pakray, Santanu Pal, Soujanya Poria, Sivaji Bandyopadhyay, Alexander Gelbukh. *JU\_CSE\_TAC: Textual Entailment Recognition System at TAC RTE-6. System Report*. Text Analysis Conference, Recognizing Textual Entailment Track (TAC RTE). Notebook, 2010.
446. Javier Tejada Cárcamo, Hiram Calvo, Alexander Gelbukh, José Villegas. *Impacto de Recursos Léxicos Manuales y Automáticos en la WSD*. CLEI 2010, XXXVI Latin American Conference of Informatics, 18–22 October 2010, Asunción, Paraguay, ISBN 978-999-6761-20-1.
447. Claudia Pérez Martínez, Alexander Gelbukh. *Wikificación automática de contenido para objetos de aprendizaje*. LACLO 2010, 5<sup>th</sup> Latin American Conference on Learning Objects, São Paulo, Brazil, 27 September to 1 October, 2010. ISBN. Accepted.
448. Partha Pakray, Pinaki Bhaskar, Santanu Pal, Dipankar Das, Sivaji Bandyopadhyay, Alexander Gelbukh. *JU\_CSE\_TE: System Description QA@CLEF 2010 - ResPubliQA*. In: Martin Braschler, Donna Harman, Emanuele Pianta (Eds.). CLEF 2010 LABs and Workshops, Notebook Papers. CLEF 2010 Workshop on Multiple Language Question Answering (MLQA 2010). 22–23 September 2010, Padua, Italy. ISBN 978-88-904810-2-4; ISSN 2038-4963. 2010, 10 pp.
449. А.Ф. Гельбух, Г.О. Сидоров, Э. Лавин-Вийа, Л. Чанона-Эрнандес (A. Gelbukh, G. Sidorov, E. Lavin-Villa, L. Chanona-Hernandez). *Automatic Detection and*

- Classification of Single-Word Terms in a Specific Domain Corpus Using Log-Likelihood Similarity with General Purpose Corpus* (in Russian: *Автоматический поиск и классификация однословных терминов в корпусе предметной области с использованием логарифмической меры сходства с неспециализированным корпусом*). International conference Dialog-2010, Russia, 2010, ISBN 5-7281-1148-1, p. 82–89.
450. I.A. Bolshakov, E.I. Bolshakova, A.F. Gelbukh. *An Associative Network of Concepts that Enter to Internet Queries* (in Russian: *Ассоциативная сеть понятий, образующих запросы к Интернет*). International conference Dialog-2010, Russia, 2010, ISBN 5-7281-1148-1, p. 55–61.
451. Partha Pakray, Sivaji Bandyopadhyay, Alexander Gelbukh. *Lexical based two-way RTE System at RTE-5*. Description of JU\_CSE\_TAC system: RTE (two-way task). Unrefereed paper. TAC 2009 Workshop, November 16–17, 2009, National Institute of Standards and Technology, Gaithersburg, Maryland, USA, 2009, 6 pp.
452. Francisco Viveros Jiménez, Efrén Mezura Montes, Alexander Gelbukh. *Adaptive evolution: an efficient heuristic for global optimization*. Franz Rothlauf (Ed.). Genetic and Evolutionary Computation Conference, GECCO 2009, Proceedings, Montreal, Québec, Canada, July 8–12, 2009. ACM 2009, ISBN 978-1-60558-325-9, pp. 1827–1828.
453. Horacio Alberto García Salas, Alexander Gelbukh. *Musical composer based on detection of typical patterns in a human composer's style*. XXIV Simposio Internacional de Computación en Educación. Sociedad Mexicana de Computación en Educación - SOMECE. 25–29 October 2008. Xalapa de Enríquez, Veracruz, Mexico. [www.somece.org.mx/simposio/memorias/documentos/103.doc](http://www.somece.org.mx/simposio/memorias/documentos/103.doc).
454. Carlos Mario Zapata Jaramillo, F. Arango Isaza, Alexander Gelbukh. *UN-LENCEP: A Controlled Language for Pre-conceptual Schema Specification*. VII Jornadas Iberoamericanas de Ingeniería del Software e Ingeniería del Conocimiento. Ecuador. ISSN 1390-292X. 2008, pp. 269–276.
455. A. Gelbukh, G.O. Sidorov, D. Lara-Reyes, L. Chanona-Hernández, M.V. Chubukova. *Genetic Algorithm for Automatic Division of Words into Morphemes*. Dialogue-2008, Russia, ISBN 978-5-7281-1022-4, pp. 97–102.
456. Carlos Mario Zapata Jaramillo, F. Arango Isaza, Alexander Gelbukh. *UNC-Diagrammer: A CASE Tool for Automatic Transformation from Preconceptual Schemas to UML Diagrams*. II Congreso Colombiano de Computación. Colombia. 2007.
457. Alexander Gelbukh, Grigori Sidorov, Liliana Chanona-Hernandez. *Dynamic programming based on lexical similarity calculation in alignment of parallel texts and its evaluation*. Dialogue-2007, Bekasovo, Russia, 30 May to 3 June 2007, p. 121–129.

458. Xavier Blanco, Mikhail Alexandrov, [Alexander Gelbukh](#). *Elaborating Formulae for Testing Word Similarity in Inflective Languages*. IJCAI-07, 20<sup>th</sup> International Joint Conference on Artificial Intelligence, [Workshop on Cross Lingual Information Access Addressing the Information Need of Multilingual Societies](#), India, 2007.
459. [H. Calvo](#), [A. Gelbukh](#). *Dependency Triples vs. Trigrams for PP Disambiguation*. Avances en la Ciencia de la Computación. VII Encuentro Internacional de Computación ENC'06, ISBN 968-5733-06-6, 2006.
460. [A. Gelbukh](#), S. Torres. *Tratamiento de ciertos pronombres y conjunciones en la transformación de un corpus de constituyentes a un corpus de dependencias*. Avances en la Ciencia de la Computación. VII Encuentro Internacional de Computación ENC'06, ISBN 968-5733-06-6, 2006.
461. [Carlos Mario Zapata Jaramillo](#), [A. Gelbukh](#), F. Arango Isaza. *UN-Lencep: Obtención Automática de Diagramas UML a partir de un Lenguaje Controlado*. Avances en la Ciencia de la Computación. VII Encuentro Internacional de Computación ENC'06, ISBN 968-5733-06-6, 2006, pp. 254–259.
462. [Alexander Gelbukh](#), [Grigori Sidorov](#), A. Vera-Félix. *Словари в задачах автоматической обработки пар переводных текстов* (In Russian; *Dictionaries in tasks of automatic processing of pairs of translated texts*). In: Computational Linguistics and Intelligent Technologies, Dialogue-2006, 2006, ISBN 5-7281-0900-4, Russia, pp. 110–114; [www.dialog-21.ru/dialog2006/materials/pdf/Gelbukh.pdf](http://www.dialog-21.ru/dialog2006/materials/pdf/Gelbukh.pdf).
463. Javier Tejada-Cárcamo, [Alexander Gelbukh](#), [Hiram Calvo](#). *Desambiguación de sentidos de palabras usando relaciones sintácticas como contexto local*. In: Advances in Natural Language Understanding and Intelligent Access to Textual Information: Proc. of First International Workshop on Natural Language Understanding and Intelligent Access to Textual Information, in: Hugo Terashima-Marín, Horacio Martínez-Alfaro, Manuel Valenzuela-Rendón, Ramón Breno-Pinero (Eds.). Fourth Mexican International Conference on Artificial Intelligence. Tutorials and Workshops, 2005, ISBN 968-891-094-5, pp. 31–40.
464. [Hiram Calvo](#), [Alexander Gelbukh](#). *Recognizing Situation Patterns from Self-Contained Stories*. In: Advances in Natural Language Understanding and Intelligent Access to Textual Information: Proc. of First International Workshop on Natural Language Understanding and Intelligent Access to Textual Information, in: Hugo Terashima-Marín, Horacio Martínez-Alfaro, Manuel Valenzuela-Rendón, Ramón Breno-Pinero (Eds.). Fourth Mexican International Conference on Artificial Intelligence. Tutorials and Workshops, 2005, ISBN 968-891-094-5, pp. 1–10.
465. [Alexander Gelbukh](#), [Grigori Sidorov](#). *К вопросу об автоматическом морфологическом анализе флективных языков* (In Russian. *On Automatic Morphological Analysis of Inflective Languages*). International Conf. on Applied



- Linguistics Dialogue-2005, 2005, “Nauka” Publ., ISBN 5-02-033970-9, Russia, pp. 92–96.
466. Pavel Makagonov, Alejandro Ruiz Figueroa, Konstantin Sboychakov, [Alexander Gelbukh](#). *Learning a Domain Ontology from Hierarchically Structured Texts*. Proc. of Workshop “Learning and Extending Lexical Ontologies by using Machine Learning Methods” at 22<sup>nd</sup> International Conference on Machine Learning, ICML 2005, August 7–11, 2005, Bonn, Germany. (A Springer publication is expected.)
467. [Alexander Gelbukh](#), [Grigori Sidorov](#). *Exploring Large Document Collections with a Dynamic Hierarchy*. International Conference INFORMATION-2004, Tokyo, Japan, November 2004, pp. 573–576.
468. [А. Ф. Гельбух](#), [Г. О. Сидоров](#), Э. Эрнандес-Рубио, М. В. Чубукова. *Словари сочетаемости слов: какой метод составления лучше?* (In Russian. [Alexander Gelbukh](#), [Grigori Sidorov](#), E. Hernández-Rubio, M. V. Chubukova. *Word Combinations Dictionaries: Which compilation method is better?*) Proc. Annual International Conf. on Applied Linguistics Dialogue-2004, ISBN 5-02-010287-3, Russia, pp. 133–138.
469. I. Bolshakov, [A. Gelbukh](#). *On Detection of Malapropisms by Multistage Collocation Testing*. NLDB-2003, 8<sup>th</sup> International Conference on Application of Natural Language to Information Systems, June 23–25, 2003, Burg, Germany. Lecture Notes in Informatics. Bonner Köllen Verlag, ISSN 1617-5468, ISBN 3-88579-358-X, 2003, pp. 28–41.
- Reprinted as:
- Igor A. Bolshakov, [Alexander Gelbukh](#). *On detection of malapropisms by multistage collocation testing*. Technical Report, N 96, CIC-IPN, Serie verde, April 2003, 13 pp.
470. [A. Gelbukh](#), M. Alexandrov, A. Bourek, P. Makagonov. *Selection of Representative Documents for Clusters in a Document Collection*. NLDB-2003, 8<sup>th</sup> International Conference on Application of Natural Language to Information Systems, June 23–25, 2003, Burg, Germany. Lecture Notes in Informatics. Bonner Köllen Verlag, ISSN 1617-5468, ISBN 3-88579-358-X, 2003, pp. 120–126.
- Reprinted as:
- [Alexander Gelbukh](#), Mikhail Alexandrov, Ales Bourek. *Selection of Representative Documents for Cluster in a Document Collection*. Technical Report, N 94, CIC-IPN, Serie verde, March 2003, 10 pp.
471. [Alexander Gelbukh](#), [Grigori Sidorov](#), L. Chanona-Hernández. *Is word sense disambiguation useful in information retrieval?* SSGRR 2003s, International Conference on Advances in Infrastructure for e-Business, e-Education, e-Science, e-Medicine, and Mobile Technologies on the Internet, track ISY, Scuola Superiore G. Reiss Romoli, L’Aquila, Italy, July 28 – August 3, 2003 (full text; abstract: p. 17); ISBN 88-85280-74-9.



472. Alexander Gelbukh, Sang Yong Han, Sergei Levachkine. *Combining sources of evidence to resolve ambiguities in toponym recognition in cartographic maps*. Semantic Processing of Spatial Data (selected papers of International Conference GEOPRO-2003, Mexico City), IPN, 2003. ISBN 970-36-0103-0, p. 42–51.
473. Alexander Gelbukh, Sergei Levachkine. *Error detection and correction in toponym recognition in cartographic maps*. IASTED International Conference GEOPRO-2002, Semantic Processing of Spatial Data. Mexico City, December 3–4, 2002. ISBN 970-18-8521-X.
474. Alexander Gelbukh, Grigori Sidorov, L. Chanona Hernández. *Corpus virtual, virtual: Un diccionario grande de contextos de palabras españolas compilado a través de Internet*. In: Julio Gonzalo, Anselmo Peñas, Antonio Ferrández (Eds.) Proc. Multilingual Information Access and Natural Language Processing, International Workshop (November 12) at IBERAMIA-2002, VII Iberoamerican Conference on Artificial Intelligence, Sevilla, Spain, November 12–15, 2002, p. 7–14.
475. Francisco Velásquez, Alexander Gelbukh, Grigori Sidorov. *AGME: Un sistema de análisis y generación de la morfología del español*. In: Julio Gonzalo, Anselmo Peñas, Antonio Ferrández (Eds.) Proc. Multilingual Information Access and Natural Language Processing, International Workshop (November 12) at IBERAMIA-2002, VII Iberoamerican Conference on Artificial Intelligence, Sevilla, Spain, November 12–15, 2002, p. 1–6.
476. Hiram Calvo, Alexander Gelbukh. *Action-request dialogue understanding system*. J.H. Sossa Azuela *et al.* (Eds.) Avances en Ciencias de la Computación e Ingeniería de Cómputo. Proc. CIC'2002, XI Congreso Internacional de Computación, November 2002, CIC-IPN, ISBN 970-18-8590-2, ISBN 970-18-8591-0, Mexico, v. II, p. 231–242.
477. Alexander Gelbukh. *Primera Asociación para el procesamiento del lenguaje natural en América Latina: problemas y perspectivas*. Proc. SLPLT-2, the 2nd International Workshop on Spanish Language Processing and Language Technologies, Jaén, Spain, September 14–15, 2001, ISBN 84-8454-095-2, Editorial Club Universitario, pp. 35–40.
478. Alexander Gelbukh, Grigori Sidorov, Adolfo Guzman-Arenas. *Document indexing with a concept hierarchy*. 1<sup>st</sup> International Workshop on New Developments in Digital Libraries, NDDL 2001, in conjunction with ICEIS 2001, International Conference on Enterprise Information Systems, Setúbal, Portugal, ICEIS Press, ISBN 972-98050-4-0, Depósito Legal N 164955/01, 2001, pp. 47–54.

Reprinted as:

- Alexander Gelbukh, Grigori Sidorov, Adolfo Guzman-Arenas. *Document indexing with a concept hierarchy*. Technical report, Serie Azul, N 101, June 2001. CIC, IPN, ISBN 970-18-6975-3, 8 pp.

479. Grigori Sidorov, Alexander Gelbukh. *Word sense disambiguation in a Spanish explanatory dictionary*. Proc. TALN-2001, Tours, France, July 2–5, 2001, pp. 398–402.
- Revised version:
- Grigori Sidorov, Alexander Gelbukh. *Word sense disambiguation in an explanatory dictionary and its usage in semantic network construction*. Technical report, Serie Azul, N 90, May 2001. CIC, IPN, ISBN 970-18-6617-7, 13 pp.
480. G. O. Sidorov, I. A. Bolshakov, P. Cassidy, S. Galicia-Haro, A. F. Gelbukh. *A Comparative analysis of the semantic field “non-adult” in Russian, English, and Spanish (in Russian)*. Proc. Annual International Conf. on Applied Linguistics Dialogue-2000, June 2000, Moscow, Russia.
481. Alexander Gelbukh. *A Data Structure for Prefix Search under Access Locality Requirements and its Application to Spelling Correction*. Proc. MICAI-2000, 1<sup>st</sup> Mexican International Conference on Artificial Intelligence (Spanish section), ISBN 970-18-4465-3, Acapulco, Mexico, April 2000, pp. 405–423.
482. Alexander Gelbukh, Grigori Sidorov, Igor A. Bolshakov. *Coherence Maintenance in Man-Machine Dialogue with Ellipses*. Proc. MICAI-2000, 1<sup>st</sup> Mexican International Conference on Artificial Intelligence (Spanish section), ISBN 970-18-4465-3, Acapulco, Mexico, April 2000, pp. 386–392.
483. Igor Bolshakov, Alexander Gelbukh, Grigori Sidorov. *On Subject-Predicate Agreement in Spanish*. Proc. CICLing-2000, International Conference on Intelligent Text Processing and Computational Linguistics, February 13–19, 2000, Mexico City. CIC-IPN, ISBN 970-18-4206-5, pp. 59–67.
484. Mikhail Alexandrov, Alexander Gelbukh, Pavel Makagonov. *Some Keyword-Based Characteristics for Evaluation of Thematic Structure of Multidisciplinary Documents*. Proc. CICLing-2000, International Conference on Intelligent Text Processing and Computational Linguistics, February 13–19, 2000, Mexico City. CIC-IPN, ISBN 970-18-4206-5, pp. 390–401.
485. Mikhail Alexandrov, Alexander Gelbukh, Pavel Makagonov. *On Metrics for Keyword-Based Document Selection and Classification*. Proc. CICLing-2000, International Conference on Intelligent Text Processing and Computational Linguistics, February 13–19, 2000, Mexico City. CIC-IPN, ISBN 970-18-4206-5, pp. 373–389.
486. I. Bolshakov, A. Gelbukh. *Two approaches to computational modeling of natural language*. **Keynote talk**. Proc. TAINA-99, International Workshop on Artificial Intelligence, CIC-IPN, Mexico D.F., ISBN 970-18-3554-9, pp. 3–16.
487. Grigori Sidorov, Alexander Gelbukh. *La resolución de correferencia con un diccionario de escenarios*. Proc. CIC-99, Simposium Internacional de Computación, November 15 - 19, 1999, CIC, IPN, Mexico D.F., ISBN 970-18-3697-9, pp. 382–391.

488. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. *Detecting the Dependencies of a Peak News Topic*. Proc. CIC-99, Simposium Internacional de Computación, November 15 - 19, 1999, CIC, IPN, Mexico D.F., ISBN 970-18-3697-9, pp. 360–366.
489. Alexander Gelbukh, Grigori Sidorov. *A dictionary-based algorithm for indirect anaphora resolution*. Proc. VEXTAL, Venecia per il Trattamento Automatico delle Lingue, November 22 to 24, 1999, ISBN 88-8098-112-9, pp. 169–174.  
[byron.cgm.unive.it/eventi/VEXTAL/EVEXTAL.html](http://byron.cgm.unive.it/eventi/VEXTAL/EVEXTAL.html)
490. S.N. Galicia-Haro, A. Gelbukh, I. Bolshakov. *Advanced subcategorization frames for languages with relaxed word order constraints (on Spanish examples)*. Proc. VEXTAL, Venecia per il Trattamento Automatico delle Lingue, November 22 to 24 1999, ISBN 88-8098-112-9, pp. 101–110.  
[byron.cgm.unive.it/eventi/VEXTAL/EVEXTAL.html](http://byron.cgm.unive.it/eventi/VEXTAL/EVEXTAL.html)
491. G. Sidorov, I. Bolshakov, P. Cassidy, S. Galicia-Haro, A. Gelbukh. *'Non-adult' semantic field: comparative analysis for English, Spanish, and Russian*. Proc. 3<sup>rd</sup> Tbilisi Symposium on Language, Logic, and Computation. Batumi, Georgia, September 12–16, 1999.  
[www.illc.uva.nl/Batumi](http://www.illc.uva.nl/Batumi)
492. Igor Bolshakov, Alexander Gelbukh, Sofia Galicia-Haro. *A Simple Method to Detect and Correct Spanish Accentuation Typos*. Proc. PACLING-99, Pacific Association for Computational Linguistics, University of Waterloo, Waterloo, Ontario, Canada, August 25–28, 1999, ISBN 0-9685753-0-7, pp. 104–113.  
[www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html](http://www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html)
493. A. Gelbukh. *Syntactic disambiguation with weighted extended subcategorization frames*. Proc. PACLING-99, Pacific Association for Computational Linguistics, University of Waterloo, Waterloo, Ontario, Canada, August 25–28, 1999, ISBN 0-9685753-0-7, pp. 244–249.  
[www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html](http://www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html)
494. A. F. Gelbukh, G. Sidorov. *On Indirect Anaphora Resolution*. Proc. PACLING-99, Pacific Association for Computational Linguistics, University of Waterloo, Waterloo, Ontario, Canada, August 25–28, 1999, ISBN 0-9685753-0-7, pp. 181–190.  
[www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html](http://www.lpaig.uwaterloo.ca/~b2hui/pacling/presenters.html)
495. Grigori Sidorov, Alexander Gelbukh. *Demonstrative pronouns as markers of indirect anaphora*. Proc. 2<sup>nd</sup> International Conference on Cognitive Science and 16<sup>th</sup> Annual Meeting of the Japanese Cognitive Science Society Joint Conference (ICCS/JCSS99), July 27–30, 1999, Tokyo, Japan, pp. 418–423.

Reprinted as:

- [Grigori Sidorov, Alexander Gelbukh](#). *Demonstrative pronouns as markers of indirect anaphora*. Technical report. Serie Azul, N 31, CIC, IPN, ISBN 970-18-3327-9, 1999, 7 pp.
- 496. [Mikhail Alexandrov, Alexander Gelbukh](#). *Measures for determining thematic structure of documents with Domain Dictionaries*. Proc. Text Mining workshop at 16<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'99), Stockholm, Sweden, July 31 – August 6, 1999, pp. 10–12.  
[www.dsv.su.se/ijcai-99](http://www.dsv.su.se/ijcai-99)
- 497. [Alexander Gelbukh, Grigori Sidorov, Adolfo Guzmán-Arenas](#). *Text categorization using a hierarchical topic dictionary*. Proc. Text Mining workshop at 16<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'99), Stockholm, Sweden, July 31 – August 6, 1999, pp. 34–35.  
[www.dsv.su.se/ijcai-99](http://www.dsv.su.se/ijcai-99)
- 498. [Manuel Montes y Gómez, Aurelio López López, Alexander Gelbukh](#). *Text mining as a social thermometer*. Proc. Text Mining workshop at 16<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'99), Stockholm, Sweden, July 31 – August 6, 1999, pp. 103–107.  
[www.dsv.su.se/ijcai-99](http://www.dsv.su.se/ijcai-99)
- 499. [Manuel Montes y Gómez, Aurelio López López, Alexander Gelbukh](#). *Extraction of document Intentions from titles*. Proc. Text Mining workshop at 16<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI'99), Stockholm, Sweden, July 31 – August 6, 1999, pp. 101–102.  
[www.dsv.su.se/ijcai-99](http://www.dsv.su.se/ijcai-99)
- 500. [Alexander Gelbukh, Grigori Sidorov](#). *Word choice problem and anaphora resolution*. Proc. International Symposium on Machine Translation & Computer Language Information Processing (ISMT&CLIP) Beijing, China, June 26–28, 1999.
- 501. [Alexander Gelbukh](#). *Between meaning and text (in extenso in Russian, with abstract in English)*. Proc. Annual International Conf. on Applied Linguistics *Dialogue-99*, May 30 – June 5, 1999, Moscow, Russia, pp. 47–55.
- 502. [A. Gelbukh, I. Bolshakov, S. Galicia-Haro](#). *Statistics of parsing errors can help syntactic disambiguation*. Proc. CIC-98, Simposium Internacional de Computación, November 11 - 13, 1998, Mexico D.F., ISBN 970-18-1916-0, pp. 405–515.
- 503. [I. Bolshakov, A. Gelbukh](#). *Lexical functions in Spanish*. Proc. CIC-98, Simposium Internacional de Computación, November 11–13, 1998, Mexico D.F., ISBN 970-18-1916-0, pp. 383–395.

Revised version:

- Bolshakov, Igor A., [Alexander F. Gelbukh](#). *Algebra of Spanish lexical functions*. In: A. de Albornoz Bueno *et al.* (eds.), *Selected Works 1997–1998*, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 25–37.
- 504. I. Bolshakov, [A. Gelbukh](#), S. Galicia Haro. *Simulation in linguistics: assessing and tuning text analysis methods with quasi-text generators* (in extenso in Russian, with abstract in English). Proc. Annual International Conf. on Applied Linguistics Dialogue-98, November 1998, Moscow, Russia, vol. 2, ISBN 5-900004-20-1 (vol. 2), ISBN 5-900004-21-X, pp. 768–775.
- 505. [A. Gelbukh](#), I. Bolshakov, S. Galicia Haro. *Automatic Learning of a Syntactical Government Patterns Dictionary from Web-Retrieved Texts*. Proc. International Conference on Automatic Learning and Discovery, Carnegie Mellon University, Pittsburgh, PA, USA, June 11 - 13, pp. 261–267, 1998.
- 506. [A.F. Gelbukh](#). *Using a semantic network for lexical and syntactical disambiguation*. Proc. CIC-97, Nuevas Aplicaciones e Innovaciones Tecnológicas en Computación, Simposium Internacional de Computación, 12–14, 1997, CIC, IPN, Mexico City, Mexico, pp. 352–366.

Revised version:

- [Alexander F. Gelbukh](#). *Disambiguation with lexical semantic distance*. In: A. de Albornoz Bueno *et al.* (eds.), *Selected Works 1997–1998*, Instituto Politécnico Nacional, Centro de Investigación en Computación, ISBN 970-18-3427-5, 1999, pp. 150–170.
- 507. I. Bolshakov, [A. Gelbukh](#). *Separate Representation of Word Combinations for Singular and Plural Number of Nouns* (in extenso in Russian: *Раздельное представление сочетаемости единственного и множественного числа существительных*, with abstract in English). Proc. Annual International Conf. on Applied Linguistics Dialogue-96, Puschino, May 4–9, 1996, Moscow, Russia, pp. 42–44.
- 508. I. Bolshakov, P. Cassidy, [A. Gelbukh](#). *Parallel English and Russian Hierarchical Thesauri with Semantic Links, Based on an Enriched Roget's Thesaurus* (in extenso in Russian: *Русский Роже: параллельные русский и английский варианты иерархического тезауруса с семантическими связями на базе пополненного тезауруса Роже*, with abstract in English). Proc. Annual International Conf. on Applied Linguistics Dialogue-95, Kazan, May 1995, Moscow, Russia, pp. 57–60.
- 509. I. Bolshakov, P. Cassidy, [A. Gelbukh](#). *CrossLexica—a Dictionary of Collocations and Thesaurus of the General Russian Lexicon* (in extenso in Russian, with abstract in English). Proc. Annual International Conf. on Applied Linguistics Dialogue-95, Kazan, May 1995, Moscow, Russia, pp. 61–64.

510. [A. Gelbukh](#). *A Model of Morphology of an Inflective Natural Language* (in Russian: [Модель морфологии флективного естественного языка](#)). Proc. 3<sup>rd</sup> International Conference “PC Software”, pp. 60–62, Tver, May 1990, Tver, Russia.

Nota: Esta lista posiblemente está incompleta. La versión más actualizada de este documento se encuentra en [www.Gelbukh.com/CV](http://www.Gelbukh.com/CV).