

Curriculum Vitae

of Prof. Dr. [Alexander Gelbukh](#)



Member of the [Mexican Academy of Sciences](#)
National Researcher of Mexico (SNI) at Excellence Level 3 (highest)
Ex-president of the Mexican Society of Artificial Intelligence
[h-index](#): Google Scholar: [49](#), Scopus: [31](#), Clarivate WoS: [23](#)
Author of more than 500 [publications](#)

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[Microsoft Academic Search](#)

This document is under construction.
Some parts may be not yet translated from Spanish.

29/08/2021

An updated version of this document
is on www.Gelbukh.com/CV

Statistics	3
General Data	4
Contact and address	4
Website, profiles, and social networks	4
Current Position	5
Degrees	5
Languages	5
Past Professional Experience	5
Current Research Interests	6
Awards	7
International awards and honorary positions	7
National awards	8
Institutional awards	8
Best paper, thesis, or result	9
Professional Activities	13
Program Committee Chair or General Chair of Conferences	13
Program Committee Member of Conferences	18
Evaluation of Grants, Scholarships, and Academic Promotion	22
Other Professional Activities	23
Research and Software Development	25
Research Grants: National and International	25
Research Grants: Institutional	26
Basic Research Grants: as participant	28
Applied Research Grants	32
Developed Tools and Intellectual Property	33
Teaching and Dissimination of Knowledge	34
Students – Theses Advised	34
Courses Delivered and Developed	46
Keynote Talks	48
Media coverage, interviews, media participation	53
Editorial Work and Non-Peer-Reviewed and Other Publications	54
Editor-in-Chief, Associate Editor, or Editorial Board Member of Journals	54
Edited Books and Journal Issues	56
Reviews	65
Articles in scientific-popular magazines	66
Technical Reports with ISBN	66
Abstracts in Proceedings of International Conferences	67
National Conferences in Extenso	70
Selected conference papers not available online or not in English	71
500 Selected Publications	78
Journals Indexed with JCR Impact Factor	78
Journals on the National Journals of Excellence List	85
Other Journals and Periodic Editions	89
Books	98
Chapters in Research Books	99
<i>Lecture Notes in Computer Science</i>	103
<i>Lecture Notes in Computer Science</i> , indexed in JCR	116
International Conferences in Extenso Published by IEEE	125
Other International Conferences <i>in Extenso</i>	130

Statistics

500 Selected Publications

161	<i>Papers in Peer-Reviewed Journals</i>
52	Journals Indexed with JCR Impact Factor
40	Journals on the National Journals of Excellence List
69	Other Journals and Periodic Editions
34	<i>Books and Book Chapters</i>
8	Books
26	Chapters in Research Books
305	<i>Peer-Reviewed Conference Papers in Extenso</i>
108	Lecture Notes in Computer Science
45	Lecture Notes in Computer Science, indexed in JCR
29	International Conferences in Extenso Published by IEEE
___	123 Other International Conferences in Extenso
500	total

Students – Theses Advised

34	PhD
38	MSc
3	BSc
21	In progress

96	total

Editorial Work

27	Editor-in-Chief, Associate Editor, or Editorial Board Member of Journals
91	Edited Books and Journal Issues

General Data

In old documents, my name can be written in different forms, such as: Alexander F. Gelbukh, Alexandre Guelboukh Kahn, Александр Гельбух, Александр Феликсович Гельбух.

Contact and address

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Skype: gelbukh

Office Address: CIC, IPN, Av. Juan Dios Batiz, Col. Nueva Industrial Vallejo, 07738, Mexico City, Mexico.

Website, profiles, and social networks

My webpage is the only reliable source of information about me that I actively maintain.

– Personal webpage: www.gelbukh.com, www.cic.ipn.mx/gelbukh

I do not actively use social networks and do not maintain my profiles. For information, see my webpage; for contact, use email.

– 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/abs/gelbukh_a_1)

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

The following services are updated automatically. I do not maintain my profiles.

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

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

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

– ORCID: [0000-0001-7845-9039](https://orcid.org/0000-0001-7845-9039)

– DBLP: [Gelbukh:Alexander_F](https://dblp.org/pid/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](#)

Current Position

1997 to date: Research Professor, tenure type "C" (highest), Natural Language and Text Processing Laboratory, Centro de Investigación en Computación (Center for Computing Research), Instituto Politécnico Nacional (National Polytechnic Institute), Mexico City, Mexico.

1997 to date: Head of this Lab.

Degrees

- PhD (Computer Science) ("Technical Sciences", speciality "Informatics"), 1995, All-Russian Institute for Scientific and Technical Information (VINITI).

Thesis in Computational Linguistics:

[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.

- MSc (mathematics; with honors), 1990, Moscow State "Lomonosov" University (MGU), Faculty of Mechanics and Mathematics, department of Mathematics; thesis in Computational Linguistics.

Languages

English (100%), Spanish (100%), Russian (native).

Past Professional Experience

- 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: Moscow State "Lomonosov" University (MGU), Russia, Philological Faculty. Teacher at the department of linguistics. Course of informatics for linguists.
- 1994–1996: MediaLingva Inc. (Moscow, Russia). Consultant. Development of tools and dictionaries for morphological analysis of natural language.
- 1988–1992: All-Union Center for Scientific and Technical Information (AUSTIC, or VNTICenter) of the National Committee for Science and Technology (GKNT) of the Academy of Sciences of the USSR, Moscow, Russia. Researcher. Research and development in the field of automatic natural language understanding.

Current Research Interests

- Artificial Intelligence
- Computational Linguistics, Natural Language Processing, Text Processing
- Sentiment and emotion analysis, sentic computing, opinion mining
- Computational morphology, syntax, and semantics
- Lexical and syntactic disambiguation
- Word Sense Disambiguation
- Direct and indirect anaphora resolution
- Information retrieval, information extraction, text mining
- Lexical resources, dictionaries and ontologies
- Human-computer interaction

Awards

International awards and honorary positions

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.

National awards

12. Member of **Mexican Academy of Sciences** since 2000.

In the Engineering section. This Academy includes 2040 regular members and 80 correspondent members; of those, 200 in the Engineering section (data 2008).

13. **National Researcher** of Mexico (member of **SNI**) since 1998, currently at the excellence level 3 (SNI 3, the highest).

Three is the highest level. There are 1,536 National Researchers of Mexico at the level 3, of the total of 17,637 National Researchers of Mexico (data of 2011). This title, subject to re-evaluation every 5 years, includes a monetary prize of more than USD \$22,000 per year.

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. **Distinguished Visitor** of the city of Apizaco, by the City Council of Apizaco, Tlaxcala, Mexico, on the occasion of the 5th Mexican International Conference on Artificial Intelligence, **2006**.

Institutional awards

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 awards** by the National Polytechnic Institute for prominent research activity: 1998, 1999, 2000, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014,

2015, 2016, 2017 and for remaining a member of the National System of Researchers of Mexico (SNI; position is subject to re-evaluation every 4 years): 2001, 2002.

20. **Diploma for Research**, by the National Polytechnic Institute (IPN), Mexico, 2009.
This distinction is awarded to only one faculty member of the IPN per year (the IPN has 15,636 faculty; of them, 8,865 in postgraduate programs and 1,069 in research centers; data of 2007). It can be awarded to a person only once.
21. **Award** from the Lawyer General of the National Polytechnic Institute (IPN) for the development of a search engine for the Internal Regulations of the IPN, 1998.
22. **Award** from the All-Union Scientific and Technical Information Center (VNTICenter, AUSTIC), Moscow, Russia, for the achievements in research and participation in social life, 1990.
23. **3rd place** at the competition of research works of young scientists of the All-Union Scientific and Technical Information Center (VNTICenter, AUSTIC), Moscow, Russia, 1989.

Best paper, thesis, or result

24. **Best PhD thesis** of IPN, 2020, as advisor (thesis: *Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations*; student: Navonil Majumder).
At IPN, 650 MSc and PhD theses are presented yearly. This award includes monetary prize of \$36,000 MXN (\$3500 USD)
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*; student: 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*; student: 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*; student: 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*; student: 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](https://doi.org/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*; student: 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*; student: 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*; student: 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*; student: 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*; student: 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*; student: Rodrigo Gabino Ramírez Moreno.

38. **Best paper** award (1st place) at the 2011 Mexican International Conference on Artificial Intelligence, [MICA-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*; student: Olga Kolesnikova (Russia).

40. **Best paper** award (1st place) at the 2010 Mexican International Conference on Artificial Intelligence, [MICA-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*; student: 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*; student: 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*; student: Yulia Ledeneva (Russia).

44. **Best PhD thesis** of IPN, 2006, as advisor (thesis: *Determinación automática de roles semánticos usando preferencias de selección sobre corpus muy grandes*; student: [Hiram Calvo Castro](#)).

At IPN, 650 MSc and PhD theses are presented yearly. This award includes monetary prize of \$36,000 MXN (\$3500 USD).

45. **Best presentation** award at the 6th 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*.

Professional Activities

Program Committee Chair or General Chair of Conferences

1. [CICLing 2019](http://www.cicling.org/2019), 20th International Conference on Intelligent Text Processing and Computational Linguistics, La Rochelle, France, April 7–13, 2019; www.cicling.org/2019; proceedings *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), 19th International Conference on Intelligent Text Processing and Computational Linguistics, Hanoi, Vietnam, March 18–24; www.cicling.org/2018; proceedings *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), 18th International Conference on Intelligent Text Processing and Computational Linguistics, Budapest, Hungary, April 2017; www.cicling.org/2017; proceedings *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), 17th International Conference on Intelligent Text Processing and Computational Linguistics, Konya, Turkey, April 2016; www.cicling.org/2016; proceedings *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), 16th International Conference on Intelligent Text Processing and Computational Linguistics, Cairo, Egypt, April 2015; www.cicling.org/2015; proceedings *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), 15th International Conference on Intelligent Text Processing and Computational Linguistics, Kathmandu, Nepal, April 2014; www.cicling.org/2014; proceedings *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), 12th Mexican Internacional Conference on Artificial Intelligence, 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), 14th International Conference on Intelligent Text Processing and Computational Linguistics, Samos, Greece, March 2013; www.cicling.org/2013; proceedings *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, 4th World Congress on Nature and Biologically Inspired Computing, Mexico City, November, 2012; www.mirlabs.net/nabic12. General co-chair, with Ajith Abraham (USA) & Albert Zomaya (Australia) proceedings **IEEE**.
 10. [CICLing 2012](http://www.cicling.org/2012), 13th International Conference on Intelligent Text Processing and Computational Linguistics, New Delhi, India, March 2012; www.cicling.org/2012; proceedings *LNCS*, **Springer**, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
 11. [CICLing 2011](http://www.cicling.org/2011), 12th International Conference on Intelligent Text Processing and Computational Linguistics, Tokyo, Japan, February 2011; www.cicling.org/2011; proceedings *LNCS*, **Springer**, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
 12. MICAI 2010, 9th Mexican Internacional Conference on Artificial Intelligence, <http://www.micai.org/2010>; 2010, Pachuca, Mexico. Track chair, proceedings: Springer LNAI and *Research in Computing Science*.
 13. [CICLing 2010](http://www.cicling.org/2010), 11th International Conference on Intelligent Text Processing and Computational Linguistics, Iași, Rumania, March 2010; www.cicling.org/2010; proceedings *LNCS*, **Springer**; *Research in Computing Science*, and *International Journal of Computational Linguistics and Applications*. Conference Chair, Program Committee Chair.
 14. CIC 2009, 18th International Conference on Computing, December 2009, Mexico City, Mexico, <http://magno-congreso.ipn.mx/CIC-2009>. Program Committee Chair.
 15. MICAI 2009, 8th Mexican Internacional Conference on Artificial Intelligence, 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), 10th International Conference on Intelligent Text Processing and Computational Linguistics, México, February 2009; www.cicling.org/2009; proceedings

- LNCS*, **Springer**; *Research in Computing Science*, *Polibits*, and *Informatica* (Slovenia). Conference Chair, Program Committee Chair.
17. CITII 2008, 6th International Conference on Intelligent and Information Technologies, October 15–17, 2008, Apizaco, Mexico. <http://sistemas.itapizaco.edu.mx/~citii08>. Track Chair of tracks *Natural Language Processing*, *Automatic Speech Recognition*, and *Web Semantics*.
 18. CIC 2008, 17th 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, 7th Mexican Internacional Conference on Artificial Intelligence, 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, 9th Mexican International Conference on Computer Science; 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*, 9th International Conference on Intelligent Text Processing and Computational Linguistics, Haifa, Israel, February 2008; www.cicling.org/2008; memorias LNCS, **Springer**; *Research in Computing Science*, and *Language Forum*. Conference Chair, Program Committee Chair.
 23. ENC 2007, National Symposium on Computing; enc.smcc.org.mx/enc07; September 24–28, 2007; Morelia, Mexico. Workshop Coordinator.
 24. *CICLing 2007*, 8th International Conference on Intelligent Text Processing and Computational Linguistics, México, February 2007; www.cicling.org/2007, proceedings LNCS, **Springer**. Conference Chair, Program Committee Chair, Organizing Committee Chair.
 25. CIC 2007, 16th International Conference on Computing; magno-congreso.cic.ipn.mx/CIC-2007; November 4–9, 2007, Mexico City, Mexico. Program Committee Co-chair. 196 submissions.
 26. MICAI 2007, 6th Mexican Internacional Conference on Artificial Intelligence, 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, 15th International Conference on Computer Science; Program Co-chair. Proceedings: IEEE CS Press. 196 submissions.

28. MICA I 2006, 5th Mexican International Conference on Artificial Intelligence, www.MICA I.org; Program Co-chair. Proceedings: Springer *LNAI*, IEEE CS Press, and Research on Computing Science; 448 submissions from 42 countries.
29. CORE 2006, 7th National Conference on Computer Science, May 2006, CIC, IPN, Mexico; www.core-cic.org, proceedings: journal *Research in Computing Science*, 2 volumes.
30. [CICLing 2006](http://www.cicling.org), 7th International Conference on Intelligent Text Processing and Computational Linguistics, México, February 2006 (www.cicling.org), proceedings *LNCS*, **Springer** and *Research on Computing Science*. Conference Chair, Program Committee Chair, Organizing Committee Chair.
31. MICA I 2005, Mexican International Conference on Artificial Intelligence, www.MICA I.org; Program Co-chair. Proceedings: Springer *LNAI* and *Research on Computing Science*; 426 submissions from 43 countries.
32. CORE 2005, 6th National Conference on Computer Science, May 2005, CIC, IPN, Mexico; www.core-cic.org, proceedings: journal *Research on Computing Science*.
33. [CICLing 2005](http://www.cicling.org), 6th International Conference on Intelligent Text Processing and Computational Linguistics, Mexico, February 2005 (www.cicling.org), proceedings *LNCS*, **Springer**. Conference Chair, Program Committee Chair, Organizing Committee Chair.
34. [Herramientas y Recursos Lingüísticos para el Español y el Portugués](#) (*Tools and Linguistic Resources for Spanish and Portuguese*); 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, 5th Mexican International Conference on Computer Science (with Manuel Montes y Gómez and Luis Villaseñor Pineda); enc.smcc.org.mx/2004.
36. CORE 2004, 5th National Conference on Computer Science, May 2004, CIC, IPN, Mexico; www.core-cic.org, proceedings with ISBN.
37. WSEAS conferences, Cancun, Mexico, May 12–15, 2004: 6th WSEAS Int. Conf. on Algorithms, Scientific Computing, Modelling and Simulation ([ASCOMS '04](#)), 6th WSEAS Int. Conf. on Telecommunications and Informatics ([TELE-INFO'04](#)), 3rd 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, 5th Mexican International Conference on Computer Science, Workshop Chair (with Miguel Arias); enc.smcc.org.mx/2004.
39. [CICLing 2004](http://www.cicling.org), 5th International Conference on Intelligent Text Processing and Computational Linguistics, Seoul, Korea, 15–21 de febrero de 2004 (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, 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.
41. CORE 2003, 4th National Conference on Computer Science, 6–7 May 2003, CIC, IPN, Mexico; www.cic.ipn.mx/core, proceedings with ISBN.
42. NLPKE 2003, IEEE International Symposium on Natural Language Processing and Knowledge Engineering, Beijing, China, October, 2003; www.cie-china.org/nlpke2003. Co-chair, with Kang K. Yen and Chengqing Zong.
43. [CICLing 2003](http://www.cicling.org), 4th International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 16–22 de febrero de 2003 (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). 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](http://www.cicling.org), 3rd International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 17–23 de febrero de 2002 (www.cicling.org), memorias LNCS N 2276, **Springer**. Organizer; Program and Organizing Committee Chair.
47. [CICLing 2001](http://www.cicling.org), 2nd International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 18–24 de febrero de 2001 (www.cicling.org), memorias LNCS N 2004, **Springer**. Organizer; Program and Organizing Committee Chair.
48. [CICLing 2000](http://www.cicling.org), 1st International Conference on Intelligent Text Processing and Computational Linguistics, Mexico City, 13–19 de febrero de 2000 (www.cicling.org),

Memorias ISBN 970-18-4206-5, IPN. Organizer; Program and Organizing Committee Chair.

Program Committee Member of Conferences

Note: This list is very incomplete and not maintained anymore due to too large number of items.

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, 16th 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.
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; www.iasted.com/conferences/2005/calgary/ci.htm.
5. AIA-2005, IASTED International Conference on Artificial Intelligence and Applications, part of the 23rd IASTED International Multi-Conference on Applied Informatics, Innsbruck, Austria, February 14–16, 2005, www.iasted.org/conferences/2005/innsbruck/aia.htm.
6. DBA-2005, IASTED International Conference on Databases and Applications, part of the 23rd IASTED International Multi-Conference on Applied Informatics, Innsbruck, Austria, February 14–16, 2005; 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.
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; 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.
12. Document Design Conference (international conference), Tilburg University, The Netherlands, January 22–24, 2004 (let.uvt.nl/docdes/conference2004; contact: Cathy de Waele). Reviewing Committee member.
13. Information'2004, The 3rd 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).
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.
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.
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).
18. CISCI-2004, 2nd Iberoamerican Conference on Systems, Cybernetics, and Informatics, July 21 to 25, 2004, Orlando, USA (www.iiisci.org/cisci2004/WebSite/ProgramCommitte.asp). International Institute of Informatics and Systemics (IIS, www.iiis.org) with cooperation of Organización Universitaria Interamericana and Instituto Internacional de Sistemas.
19. TSD-2004, 7th International Conference “Text, Speech, Dialogue,” Czech Rep., September 2004, publication: Springer Lecture Notes in Artificial Intelligence.
20. DEXA-2004, 15th International Conference Database and Expert Systems Applications, Zaragoza, Spain, 2004. Proceedings: LNCS, Springer.; 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.
22. NLUCS-2004, The First International Workshop on Natural Language Understanding and Cognitive Science (www.iceis.org/workshops/nlucs/nlucs2004-cfp.html) at ICEIS-2004, 6th International Conference on Enterprise Information Systems (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, 2nd International Conference on Innovation and Technological Development, Cuernavaca, Morelos, 19–23 November 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.
26. DBA 2004, IASTED International Conference on Databases and Applications as part of the 22nd IASTED International Multi-Conference on Applied Informatics, February 17–19, 2004, Innsbruck, Austria (www.iasted.org/conferences/2004/Innsbruck/c419.htm).
27. NLDB-2004, 9th 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, 4th International Conference on Language Resources and Evaluation, Lisbon, Portugal, 26–28 May 2004, www.lrec-conf.org/lrec2004.
29. AIA 2004, IASTED International Conference on Artificial Intelligence and Applications as part of the 22nd IASTED International Multi-Conference on Applied Informatics, February 16–18, 2004, Innsbruck, Austria (www.iasted.org/conferences/2004/Innsbruck/c411.htm, [aia.htm](http://www.iasted.org/conferences/2004/Innsbruck/c411.htm#aia)).
30. MICAI-2004, *Mexican International Conference on Artificial Intelligence*, México, 2002, proceedings LNAI, ISBN 3-540-43475-5, **Springer** (gsidom.iie.org.mx/micai2004.html).
31. **DEXA-2003**, 14th 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).
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.

35. ENC-2003, 4th International Conference on Computer Science, Apizaco, Tlaxcala, México, 8–12 September 2003; www.lania.mx/~smcc/enc03.
36. CИСCI-2003, 2nd Iberoamerican Conference on Systems, Cybernetics, and Informatics, July 31 to August 2, 2003, Orlando, USA (216.72.45.230:1081/cisci2003/ComProgram.asp; www.iiisci.org/cisci2003). Honorary Chair: Freddy Malpica, Chair: Jorge Baralt. Organized by: International Institute of Informatics and Systemics (IIS, www.iiis.org) with cooperation of Organización Universitaria Interamericana and Instituto Internacional de Sistemas.
37. SCI-2003, 7th World Multiconference on Systems, Cybernetics, and Informatics, July 27–30, 2003, Orlando, USA (www.iiis.org/sci2003/ProgramCommittee.htm; www.iiisci.org/sci2003). Chair: William Lesso. Organized by: International Institute of Informatics and Systemics (IIS, www.iiis.org).
38. RANLP-2003, 4th 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).
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.
41. NLDB-2003, 8th 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^o Workshop Ibero-Americano de Ingeniería de requisitos y ambientes de software, Asunción, Paraguay, 30 April to 2 May 2003; 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; 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. CИСCI-2002, Iberoamerican Conference on Systems, Cybernetics, and Informatics, June 19–21, 2002, Orlando, USA (216.72.45.230:1081/cisci/comprogram.htm; www.iiisci.org/sci2002). Honorary Chair: Freddy Malpica, Chair: Jorge Baralt. Organized by: International Institute of Informatics and Systemics (IIS, 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.

47. 15th National Conference and 1st International Conference on Informatics and Computing of the 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; www.iiisci.org/sci2002). Chair: William Lesso. Organized by: International Institute of Informatics and Systemics (IIIS, www.iiis.org).
49. ISADS-2002, 5th International Symposium on Autonomous Decentralized Systems; 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*, 3rd International Conference on Recent Advances in Natural Language Processing, 5–7 Sept 2001, Tzigrav 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) 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, 3rd International Conference on Computer Systems, Technological Institute of Veracruz, 5–7 September 2001.
54. MICAI-2000, *Mexican International Conference on Artificial Intelligence*, Acapulco, Mexico, 10–14 April 2000, proceedings ISBN 970-18-4465-3.
55. CIC-2000, X International Conference in Computing, National Polytechnic Institute, Mexico City, November 13–17 2000.

Evaluation of Grants, Scholarships, and Academic Promotion

1. Reviewer of a national project, CONACyT (Mexican Government): *call Investigación en Fronteras de la Ciencia*, 2016, project 2410: *Fuerza de atracción textual: hacia un nuevo paradigma de clasificación de documentos*.
2. External reviewer for promotion to Full Professor, School of Computing, Salford University (case of Prof. Farid Meziane, 2012).
3. External reviewer for promotion to Professor Haver (between Associate Professor and Full Professor), Department of Computer Science, University of Haifa (case of Prof. Shuly Wintner, 2010).

4. Reviewer for the CONACYT (research grants, area of computing) for calls of 1998, 1999, 2000, 2001, 2002, 2003, 2004, probably also other years; 2007 (4 grants for call of basic sciences 2007, evaluated in 2008).
5. External reviewer for university promotion, Engineering Institute, UNAM (case of Prof. Gerardo Sierra Martínez, 2004).
6. Reviewer of an international project (USD \$40,000), Laboratorio Avanzado Franco-Mexicano de Informática (Advanced France-Mexico Laboratory of Informatics, LAFMI), 2004.
7. Reviewer of a national project (MXN \$500,000), CONACyT-SEMARNAT (Mexican Government), 2004.
8. Member of the review committee for the evaluation, of the Program 2003 of the Mexican Academy of Sciences (AMC) and the Foundation Mexico–USA for Science (FUMEC) for Summer research stays in the USA for young researchers; coordinator Dr. Eusebio Juaristi Cosío.
9. External reviewer for promotion to Full Professor, Department of Computer Science, University of Minnesota Duluth (case of Prof. Ted Pedersen, 2002).

Other Professional Activities

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. Lecturer of the ACM (Association for Computing Machinery), Distinguished Lectureship Program of ACM for Mexico and Central America, since 2000 (hipernexos.escom.ipn.mx/cgelbuk.html).
5. Distinguished Lecturer of the Mexican Society of Artificial Intelligence (**SMIA**), since 2006.
6. Member of the directory of experts of the European Network for Excellence in Human Language Technology (ELSNET) (www.elsnet.org, utrecht.elsnet.org/cgi-ksh/show_experts.ksh?expert1137).
7. Member of the *Directory of experts in informatics and technology qualified for the process of conversion for Year 2000*, by the Mexican Government.

8. Participated in the Academic and Research Agreement between the National Polytechnic Institute, Computing Research Center, and the INAOE, Puebla.
9. Member of the ACM (Association for Computing Machinery), since 2000.
10. Coordinator of the research group member of the RITOS-2 network of the CYTED, formed in 1999. Representative of the National Polytechnic Institute (Mexico) in the RITOS-2.
11. Member of the [IASTED](#) Technical Committee on Artificial Intelligence and Expert Systems for the term 2002–2005.
12. Member (2001–2002) and President (2002–2003) of the PhD Program Committee of the Center for Computing Research of the IPN, Mexico.
13. Tutor for the Summer Scientific Research Program of the Mexican Academy of Sciences, years 2001, 2002, 2003.
14. ACM Reviewer for Computing Reviews, ISSN 1530-6585, reviewer number 6087, since 2004; www.reviews.com.
15. [WSEAS](#) Scientific Committee member, since 2004.
16. Collaborator in the compilation of the book: Caridad Anías Calderón, Yoel Ledo Mezquita (eds.) *La telemática y su aplicación en la educación a distancia y en la informatización de la sociedad* (Telematics and its applications to distance education and informatization of the society). Editorial house Félix Varela, Cuba, ISBN 959-261-042-8, volumes 1, 2.

Research and Software Development

Research Grants: National and International

1. *Análisis multilingüe de veracidad y perfil de autor en redes sociales*. CONACYT (Govt. of Mexico) A1-S-47854 (Principal Investigator), MXN \$1,644,000 = USD \$84,707, 2019–2022 (3 years).
2. *Answer Validation through Textual Entailment*. CONACYT (Govt. of Mexico) – DST India (CONACYT 122030 / Mexico-India 2011–2014) (co-Principal Investigator, 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 (Development of a parallel aligned Spanish-English corpus using automatic global disambiguation with bilingual dictionaries)*. CONACYT (Govt. of Mexico) 50206-H (Principal Investigator). 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 (Intelligent information classification and retrieval in Spanish document collections, based on computational linguistics methods)*. CONACYT (Govt. of Mexico) 38698-A (Principal Investigator), MXN \$555,615; 2002–2005 (3 years).
5. *Buscador de conceptos en redes informáticos de conocimiento basado en agentes (Concept search engine for knowledge information networks, based on agents)*. REDII-CONACYT (Govt. of Mexico), Mexico City (jointly with ITESM campus Monterrey, Principal Investigator), 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 (Compilation of a representative corpus of contexts of Spanish words and a technique for its use for compilation of a statistical subcategorization dictionary for Spanish)*. CONACYT (Govt. of Mexico) 32003-A (Principal Investigator), MXN \$266,968; 2000–2002.
7. *Mecanismos de computación biológica en lingüística matemática (Mechanisms of biological computing in mathematical linguistics)*. Joint project between the Universidad

Rovira i Virgili, Spain – IPN – UNAM, funded by the Program for Scientific Cooperation with Ibero-America of the Spanish Ministry of Education, Culture, and Sport, first phase 2000–2001 (1 year), second phase 2001–2002 (1 year) (coordinator of the group of the IPN; Principal Investigator Dr. Carlos Martín Vide, Spain).

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* (Extraction of a large government patterns dictionary for syntactic analysis and generation of Spanish texts, from a corpus). REDII-CONACYT (Govt. of Mexico), Mexico City (Principal Investigator), MXN \$226,000; 1999.

Research Grants: Institutional

9. *Modelos del lenguaje, sentimientos y opiniones con métodos de aprendizaje automático y aprendizaje profundo*. SIP-IPN [20200859](#) (Principal Investigator), 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](#) (Principal Investigator), 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](#) (Principal Investigator), 2018.
12. *Aplicaciones de redes neuronales convolucionales al análisis de redes sociales*. SIP-IPN [20172008](#) (Principal Investigator), MXN \$95,000 = USD \$5,300, 2017.
13. *Tratamiento computacional de afectividad en el texto y en la música*. SIP-IPN [20161958](#) (Principal Investigator), MXN \$87,000, 2016.
14. *Análisis sintáctico y semántico de textos aplicado a tareas de educación, derecho y redes sociales*. SIP-IPN [20152100](#) (Principal Investigator), MXN \$15,000, 2015.
15. *Extracción de hechos y desambiguación en la detección de opiniones y polaridad en el texto*. SIP-IPN [20144534](#) (Principal Investigator), MXN \$66,000, 2014.
16. *Análisis de expresiones compuestas, afectividad y personalidad en los textos con los métodos de aprendizaje automático*. SIP-IPN [20131702](#) (Principal Investigator), 2013.
17. *Desambiguación y agrupación automática de los sentidos de las palabras para las aplicaciones en el procesamiento computacional de lenguaje natural* (Automatic disambiguation and clustering of word senses for application in computational processing of natural language). SIP-IPN [20121823](#) (Principal Investigator), 2012.
18. *Detección de la implicación textual y relaciones léxicas en los textos en lenguaje natural* (Principal Investigator) (*Recognizing textual entailment and lexical relationships in natural language texts*). 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 (Weighting measures and word similarity functions for intelligent text processing, semantic disambiguation and classification of documents in natural language)*. SIP-IPN [20091587](#) (Principal Investigator), MXN \$46,999, 2009.
20. *Generación de resúmenes de textos por computadora con la detección automática de expresiones multipalabra (Automatic text summarization with automatic detection of multiword expressions)*. SIP-IPN [20082936](#) (Principal Investigator), MXN \$42,999, 2008.
21. *Análisis global y local de diccionarios electrónicos para la desambiguación de sentidos de palabras y generación de texto (Global and local analysis of electronic dictionaries for word sense disambiguation and text generation)*. Part 1. SIP-IPN [20061299](#) (Principal Investigator), MXN \$64,000, 2006. Part 2. SIP-IPN [20071753](#) (Principal Investigator), 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 (Statistical machine learning methods for word sense disambiguation using collocations)*. CGPI-IPN [20051184](#) (Principal Investigator), MXN \$67,000, 2005–2006.
23. *Extracción automática de los grafos conceptuales de los textos en español, con aplicaciones a la recuperación de información (Automatic extraction of conceptual graphs from Spanish texts, with applications to information retrieval)*. CGPI-IPN [20040694](#) (Principal Investigator), MXN \$50,500, 2004–2005.
24. *Resolución automática de ciertos casos de correferencia en los textos en español (Automatic coreference resolution for some special cases in Spanish texts)*. CGPI-IPN [20031715](#) (Principal Investigator), MXN \$75,000, 2003.
25. *Métodos de comparación temática y semántica inteligente de los documentos en español (Methods for intelligent thematic and semantic comparison of Spanish documents)*. CGPI-IPN 20020236 (Principal Investigator), 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 (A large dictionary of usage contexts of low- and medium-frequency Spanish words for automatic extraction of statistical linguistic information of certain types)*. CGPI-IPN 20010768 (part of the Program 18.04) (Principal Investigator), 2001.
27. *Generación de bases y explotación de sistemas basados en conocimientos, parte 3: métodos basados en colocaciones (Generation of knowledge-based databases and exploitation of knowledge-based systems. Part 3: collocation-based methods)*. Program CGPI-IPN 18.04 (coordinator), 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 (Semi-automatic translation system for*

- semantic dictionaries and its use for ambiguity resolution in texts*). CGPI-IPN 200123 (Principal Investigator), MXN \$50,000; 2000.
29. *Métodos de aprendizaje automático de los diccionarios sintácticos y resolución de ambigüedades sintácticas a través de la atracción léxica (Machine learning methods for compilation of syntactic dictionaries and for syntactic ambiguity resolution through lexical attraction)*. CGPI-IPN 990461 (Principal Investigator), MXN \$17,000; 1999.
30. *Búsqueda y clasificación inteligente en las bases de datos de documentos jurídicos en el español de México (Intelligent search and classification in databases of legal documents in Mexican Spanish)*. CGPI-IPN 990081 (Principal Investigator), MXN \$45,000; 1999.
31. *Generación de bases y explotación de sistemas basados en conocimientos, parte 2: clasificación de documentos y compilación de ontologías (Generation of knowledge-based databases and exploitation of knowledge-based systems. Part 2: document classification and compilation of ontologies)*. Program DEPI-IPN (coordinator), 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 (Compilation of normalization tables and dictionaries of words with incomplete semantics for semantic classification of Spanish documents and automatic learning of ontologies)*. DEPI-IPN 980772 (Principal Investigator), 1998.
33. *Generación de bases y explotación de sistemas basados en conocimientos, parte 1 (Generation of knowledge-based databases and exploitation of knowledge-based systems. Part 1)*. Program DEPI-IPN (coordinator), MXN \$60,000 1997.
34. *Construcción de un analizador sintáctico para textos en español, basado en las gramáticas extendidas independientes del contexto (Development of a syntactic parser for Spanish texts based on extended context-free grammars)*. DEPI-IPN 970312 (Principal Investigator), 1997.
35. *Desarrollo de las herramientas a nivel morfológico para el procesamiento y la investigación de textos en español (Development of morphology-level tools for processing and research of Spanish texts)*. DEPI-IPN 970311 (Principal Investigator), 1997.

Basic Research Grants: as participant

36. *Extracción automática de eventos clínicos desde textos médicos*. SIP 20181849 (participant; Principal Investigator: [G. Sidorov](#)), 2018.
37. *Construcción y análisis comparativo de medidas de similitud y asociación para diferentes áreas de aplicación*. SIP 20171344 (participant; Principal Investigator: [I. Batyrshin](#)), 2017.

38. *Identificación automática del lenguaje nativo de autores de textos*. SIP [20171813](#) (participant; Principal Investigator: [G. Sidorov](#)), MXN \$87,000, 2017.
39. *Desarrollo de métodos de análisis de relaciones entre variables usando medidas de asociación*. SIP [20162204](#) (participant; Principal Investigator: [I. Batyrshin](#)), 2016.
40. *Compilación de un corpus de códigos de programas y su evaluación en la clasificación automática*. SIP [20151406](#) (participant; Principal Investigator: [G. Sidorov](#)), MXN \$48,000, 2015.
41. *Desarrollo de métodos de construcción de medidas de asociación para diferentes áreas de aplicación*. SIP [20151589](#) (participant; Principal Investigator: [I. Batyrshin](#)), 2015.
42. *Determinación automática de autores de textos usando n-gramas sintácticos continuos y no-continuos*. SIP [20144274](#) (participant; Principal Investigator: [G. Sidorov](#)), MXN \$59,000, 2014.
43. *Desarrollo de un corpus de textos marcado con emociones para el español y su evaluación*. SIP [20131441](#) (participant; Principal Investigator: [G. Sidorov](#)), 2013.
44. *Análisis de un diccionario explicativo con un algoritmo genético para la búsqueda de un conjunto definidor (Analysis of an explicative dictionary with a genetic algorithm for the search of defining vocabulary)*. SIP [20120418](#) (participant; Principal Investigator: [G. Sidorov](#)), 2012.
45. *Web Information Quality Evaluation Initiative (WIQ-EI)*, 7th FWP (Seventh Framework Programme) of European Union, project 269180 (participant): 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 (Dialog with a mobile robot in natural language)*. Mexico City Government, ICYT PICCO10-120 (participant; Principal Investigator: [G. Sidorov](#)), 2011, MXN \$273,142.
47. *Generación automática de resúmenes de textos cortos (Automatic summarization of short texts)*. SIP [20111146](#) (participant; Principal Investigator: [G. Sidorov](#)), 2011.
48. *Extracción automática de patrones sintácticos (Automatic extraction of syntactic patterns)*. SIP [20100668](#) (participant; Principal Investigator: [G. Sidorov](#)), 2010.
49. *Desarrollo de gramáticas formales para reconocimiento de texto y voz (Development of formal grammar for text and voice recognition)*. SIP [20090772](#) (participant; Principal Investigator: [G. Sidorov](#)), 2009.
50. *Representación estructural de datos visuales y búsqueda inteligente en diccionarios de idiomas con escritura ideográfica (Structural representation of visual data and intelligent search in dictionaries of languages with ideographic writing systems)*. SIP [20080787](#) (participant; Principal Investigator: [G. Sidorov](#)), 2008.

51. *Métodos de aprendizaje automático para detección de estructura morfé mica de palabras en español (Machine learning methods for detection of the morphemic structure of words in Spanish)*. SIP [20071579](#) (participant; Principal Investigator: [G. Sidorov](#)), 2007.
52. *Métodos de aprendizaje automático para detección de estructura morfé mica de palabras en español (Machine learning methods for detection of the morphemic structure of words in Spanish)*. SIP [20060735](#) (participant; Principal Investigator: [G. Sidorov](#)), 2006.
53. *Desarrollo del sistema para alineación semiautomática de textos paralelos español-inglés y su aplicación para creación de un corpus paralelo (Development of a system for semi-automatic alignment of parallel Spanish-English texts and its application to the creation of a parallel corpus)*. SIP [20050459](#) (participant; Principal Investigator: [G. Sidorov](#)), 2005.
54. *Formulacion y evaluacion de modelos para resolver preguntas a partir de textos en español empleando informacion lingüística a varios niveles (Formulation and evaluation of models for question answering in Spanish texts using linguistic information of various levels)*. **CONACYT** (Govt. of Mexico) 43990 (participant; Principal Investigator: [Manuel Montes y Gómez](#)), 2004–2007 (3 years).
55. *Precision-controlled retrieval of qualitative information*. Gobierno de México: **CONACYT** (Govt. of Mexico) 43377 (participant; Principal Investigator: [Adolfo Guzmán Arenas](#)), 2004–2007 (3 years).
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 (An improved method for word sense disambiguation based on a collocation dictionary and on automatic re-grouping of word senses in an explicative dictionary)*. SIP [20031322](#) (participant; Principal Investigator: [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 (Dynamic domain-oriented dictionaries as a tool for measuring and presentation of the trends in the development of scientific and technical areas and the interaction between them)*. **CONACYT** (Govt. of Mexico) 39011-A (participant; Principal Investigator: M.A. Alexandrov), MXN \$203,659; 2002–2005 (3 years).
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 (Automatic construction of the base of the lexical system of Spanish through an explicative dictionary and its application to information retrieval tasks)*. **CONACYT**

- (Govt. of Mexico) 38435-A (participant; Principal Investigator: [G. Sidorov](#)), MXN \$641,080; 2002–2005 (3 years).
61. *Un diccionario de colocaciones para el español con enriquecimiento con la inferencia lógica* (A dictionary of Spanish collocations with enrichment via logical inference). CGPI-IPN 20010767 (parte del Programa 18.04) (participant; Principal Investigator: I.A. Bolshakov), 2001.
 62. *Sistema de resolución de ambigüedades sintácticas para el español, basado en un diccionario de colocaciones* (Syntactic disambiguation system for Spanish based on a collocation dictionary). CGPI-IPN 20010769 (parte del Programa 18.04) (participant; Principal Investigator: [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* (Automatic compilation of a dictionary of semantic primitives by its extraction from bilingual and monolingual Spanish dictionaries, with application to ambiguity resolution). CGPI-IPN (participant; Principal Investigator: [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)* (Extraction of ecological information from textual data and observation data with text processing methods and method of partial differential equations (practical applications in Mexico City and in Moscow)). **CONACYT** (Govt. of Mexico) 0402-00 and the City Government of Moscow, Russia (participant; Principal Investigator: M.A. Alexandrov), USD \$10,000 + USD \$10,000.
 65. *La extracción automática de información semántica de los diccionarios bilingües y explicativos de español* (Automatic extraction of semantic information from Spanish bilingual and explicative dictionaries). **CONACYT** (Govt. of Mexico) I-31989A (participant; Principal Investigator: [G. Sidorov](#)), MXN \$70,000; 1999–2000 (1 year).
 66. *Sistema inteligente para la clasificación de documentos basado en un diccionario de español con una jerarquía ponderada de temas* (Intelligent document classification system based on a Spanish dictionary with a weighted topic hierarchy). CGPI-IPN 990078 (participant; Principal Investigator: [G. Sidorov](#)), MXN \$20,000; 1999.
 67. *Creación de dos libros educativos de la serie Lingüística Aplicada con énfasis a español* (Creation of two textbooks in the Applied Linguistics series, with emphasis on Spanish). CGPI-IPN 990197 (participant; Principal Investigator: I.A. Bolshakov), MXN \$23,000; 1999.
 68. *Determinación de fuentes contaminantes locales y de área mediante técnicas de modelación matemática* (Detection of local and extensive contamination sources via mathematical modeling techniques). CGPI-IPN 990080 and Mexican Oil Institute

- (participant; Principal Investigator: 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 (Development of a program for thematic division of text based on statistics and thesaurus links between terms)*. CGPI-IPN 990079 (participant; Principal Investigator: 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 (A program for semi-automatic construction of domain-oriented dictionaries for classification and selection of texts, and its experimental exploitation in the domain of politics and macroeconomy)*. DEPI-IPN 980773 (participant; Principal Investigator: M.A. Alexandrov), 1998.
71. *La tecnología de la clasificación semántica automática y la compilación de diccionarios orientados al dominio (Automatic semantic classification techniques and compilation of domain-oriented dictionaries)*. DEPI-IPN 980771 (participant; Principal Investigator: G. Kostytchev), 1998.
72. *Analizador sintáctico para lenguaje español, dirigido por el diccionario de patrones de manejo sintáctico (Syntactic parser for Spanish driven by a government pattern dictionary)*. Gobierno de México: **CONACYT** (Govt. of Mexico) 26424-A (participant; Principal Investigator: I.A. Bolshakov), MXN \$277,000; 1998–2000.
73. *Compilación de la parte básica del tesoro multirrelacional y multijerárquico del diccionario general (Compilation of the basic part of multirelational and multihierarchical thesaurus of the general lexicon)*. DEPI-IPN 970314 (participant; Principal Investigator: I.A. Bolshakov), 1997.
74. *Compile un diccionario de patrones de manejo sintáctico para el español (Compilation of a government patterns dictionary for Spanish)*. DEPI-IPN 970313 (participant; Principal Investigator: I.A. Bolshakov), 1997.

Note: This list is incomplete.

Applied Research Grants




75. *Sistema inteligente para la recuperación de información de una biblioteca digital de proyectos de investigación (Intelligent search engine for a digital library of research projects)*. by order of the CIC-IPN (Principal Investigator), 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 (Design and implementation of an intelligent information retrieval system for texts of political domain in the document base of the Senate of the Mexican Republic)*. by order of the **Senate** of the Mexican Republic (Principal Investigator), 1999–2000, MXN \$300,000.

Developed Tools and Intellectual Property

1. *Sistema de interacción con un robot móvil usando tecnología de voz*. Intellectual property certificate 03-2013-031412165400-01, registered to Instituto Politécnico Nacional, authors: Grettel Barceló Alonso, Eduardo Antonio Cendejas Castro, [Alexander Gelbukh](#), Obdulia Pichardo Lagunas, Juan Pablo Francisco Posadas Durán, [Grigori Sidorov](#), 2013.
2. *Generador de resúmenes (Text Summarizer)*. Intellectual property certificate 03-2009-101610474900-01, registered to [Yulia Ledeneva](#) and [Alexander Gelbukh](#), 2009.
3. *AGME*: Software for morphological analysis and generation of Spanish words. Intellectual property certificate 03-2006-100911021300-01, authors: Francisco Antonio Castillo Velázquez, Liliana Chanona Hernández, [Alexander Gelbukh](#), [Grigori Sidorov](#), 2006.
4. *Classifier*, prototype for use in teaching, 1999.
5. *Parser*, prototype for use in teaching, 1999.
6. An administrative software package, by order of the Lawyer General of the IPN, 1999.

Teaching and Dissimination of Knowledge

Students – Theses Advised

Many of my graduates have received awards and distinctions; see [www.gelbukh.com / awards-students](http://www.gelbukh.com/awards-students). I have advised or am advising students from   in universities of .

PhD

Almost all my PhD graduates living in Mexico are members of the **SNI**, except for those recently graduated and those who work for private universities that do not have an agreement with the SNI.

1.  Segun Taofeek Aroyehun (Nigeria), PhD, CIC-IPN. *Deep-Learning Methods for Mining Social Media*. 2021-08-27. **Cum laude; Best result at TRAC 2018 Shared Task on Aggression Identification; Microsoft Latin America PhD Award 2020; Google 2020 Latin America PhD Award; Distinguished member of the SMIA.**
2. Sandeep Kumar Dash (India), PhD, National Institute of Technology Mizoram, India. *Spatial Information Extraction from Text Using Image*. 2021-06-04. Co-advisor, jointly with Partha Pakray, advisor: Ranjita Das.
Now: Assistant Professor, National Institute of Technology Mizoram, India (2021).
3. Rohini Basak (India), PhD, Jadavpur University, India. *A Study on Recognizing Textual Entailment using Different Approaches*. 2020-07-20. Co-advised with Sudip Kumar Naskar.
Now: Assistant Professor, Jadavpur University, India (2020).
4.  Navonil Majumder (India), PhD, CIC-IPN. *Latent Memory-Based Neural Models for Sentiment Analysis of Multimodal Multi-Party Conversations*. 2020-07-03. Co-advised with Soujanya Poria. **Premio por mejor desempeño académico IPN 2018–2019; cum laude; 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.

Now: Post-doctoral student at the [DeCLaRe Lab](#), [Singapore University of Technology and Design](#), Singapore.

5. ★ Carolina Fócil Arias, PhD, CIC-IPN. *Análisis de historias clínicas basado en similitud textual*. 2019-01-17. Co-advised with [Grigori Sidorov](#); **cum laude**.

6. ★ Miguel Ángel Sánchez Pérez, PhD, CIC-IPN. *Plagiarism Detection Through Paraphrase Recognition*. 2018-07-03. Co-advised with [Grigori Sidorov](#); **cum laude**.

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

7. ★ Francisco Ortigoza García, PhD, [Universidad de Sonora](#), Mexico. *A software-based graphical method for the visual recognition of patterns in literary analysis: Tolkien and Herbert analyzed*. 2017-11-13. Codirector. Co-advised with Constantino Martínez Fabián; **cum laude**.

Now: Faculty at IPN (2018).

8. ★ Fernando Monroy Tenorio, PhD, CIC-IPN. *Medidas de asociación en escalas bipolares para la minería de opinión en redes sociales*. 2017-06-27. Co-advised with Ildar Batyrshin; **cum laude**.

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

9. ★ Rodrigo Gabino Ramírez Moreno, PhD, CIC-IPN. *Music generation with formal grammars of multiple instruments and a conductor* (in his diploma: *Generación de música con gramáticas formales de instrumentos múltiples y un director de orquesta*). 2016-08-05; **cum laude**.

Now: Director General, Atomo Soluciones (2016).

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


En el 2nd 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.

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


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

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

12.  [Alisa Zhila](#) (Russia). PhD, 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 SMIA**; **cum laude**.


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.

Now: Lead Data Scientist, Target Corp., USA. Before: IBM (Littleton, MA, USA), **IBM Watson** division, which develops cognitive technology, including Question Answering technology (2016).

13.  [Francisco Viveros Jiménez](#), CIC-IPN. *Word sense disambiguation through associative dictionaries*; 2014-08-04. Co-advised with [Grigori Sidorov](#). **Premio por mejor desempeño académico** CIC-IPN, 2012; **Microsoft Research Internship** 2014; **cum laude**; **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**).



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

14.  [Partha Pakray](#) (India). PhD, Jadavpur University, India. *Answer Validation through Textual Entailment*; 2013-12-06. Co-advised with [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.

Now: Assistant Professor, National Institute of Technology Silchar, India (2019).
 Before: 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).

15.   Sabino Miranda Jiménez. PhD, CIC-IPN. *Modelo para la generación automática de resúmenes abstractivos basado en grafos conceptuales*; 2013-08-01, **cum laude; mejor tesis** de Doctorado (3° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2013. Co-advised with [Grigori Sidorov](#).

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





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

16.   Alfredo López Monroy. PhD, CIC-IPN. *Recuperación de información para respuesta a preguntas en documentos legales*; 2013-01-18, **cum laude; mejor tesis de Doctorado** (2° lugar) en el concurso nacional de tesis sobre Inteligencia Artificial en 2013. Co-advised with [Hiram Calvo Castro](#).

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

17. Horacio Alberto García Salas. PhD, CIC-IPN. *Modelo generativo de composición melódica con expresividad*; 2012-05-28. Co-advised with [Hiram Calvo Castro](#).

Now: Profesor, UAEM (2012).

18.     Olga Kolesnikova (Russia). PhD, CIC-IPN. *Automatic extraction of lexical functions*; 2011-06-27, **cum laude; best paper** award (1st 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).

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

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

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

20. 🌐🇨🇺🇺🇸🇺🇸 Grettel Barceló Alonso (Cuba), PhD, CIC-IPN. *Desambiguación de los sentidos de las palabras en español usando textos paralelos*. Co-advised with Grigori Sidorov; 2010-06-25, **cum laude**; **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**).

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

21. 🌐🇺🇸🇺🇸 Sulema Torres Ramos, PhD, CIC-IPN. *Optimización global de coherencia en la desambiguación del sentido de las palabras*; 2010-01-20, **cum laude**.

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

22. 🇺🇸🇺🇸 Javier Leandro Tejada Cárcamo (Peru), PhD, CIC-IPN. *Construcción automática de un modelo de espacio de palabras mediante relaciones sintagmáticas y paradigmáticas*. Co-advised with Hiram Calvo Castro; 2009-08-19, **cum laude**.

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

23. 🌐🇷🇺🇺🇸🇺🇸🇺🇸 Yulia Ledeneva (Russia), PhD, CIC-IPN. *Automatic language-independent detection of multiword descriptions for text summarization*; 2008-11-12, **cum laude**; **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**).

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

24. 🇺🇸🇺🇸 Steve Legrand (Australia / Finland), PhD, University of Jyväskylä, Finlandia. *Use of Background Real-World Knowledge in Ontologies for Word Sense Disambiguation in the Semantic Web*. Co-advised with 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.

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

25. 🌐 José Antonio Zárate Marceleño, PhD, 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.

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

26. 🌟 Carlos Mario Zapata Jaramillo (Colombia), PhD, 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; **highest cum laude**.

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.

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

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

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

28. 🙋 Yoel Ledo Mezquita (Cuba / Spain), PhD, 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.

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




29. 🌐 🙋 🌟 🌟 🌟 🌟 🎓 Hiram Calvo Castro, PhD, CIC-IPN. *Determinación automática de roles semánticos usando preferencias de selección sobre corpus muy grandes*. 2006-06-19, **cum laude**; **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).






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

30.  Juan Javier González Barbosa, PhD, 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.
Now: Miembro del **SNI nivel I** desde 2006, Profesor del Instituto Tecnológico de Ciudad Madero, Tampico (2006).
31.  Kwangcheol Shin (South Korea), PhD, 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)*. Co-advised with [San Yong Han](#); 2004-05-25.
Now: Research Professor at [KAIST](#), Korea; autor de 23 publicaciones y 5 patentes (2012), tras una estancia postdoctoral en la U. de Minnesota.
32.  Raúl Morales Carrasco, PhD, CIC-IPN. *Resolución automática de anáfora indirecta en el español*. Codirector: [Ruslan Mitkov](#); 2004-01-27.
Now: Miembro del **SNI nivel I** desde 2005, profesor titular y jefe de laboratorio, Instituto Tecnológico de Puebla (2007).
33.   Manuel Montes y Gómez, PhD, CIC-IPN. *Minería de texto empleando la semejanza entre estructuras semánticas*. Codirector: Aurelio López López; 2002-02-26; **cum laude**.
Now: 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).
34.  Sofía Galicia Haro, PhD, CIC-IPN. *Analizador sintáctico avanzado dirigido por el diccionario de patrones de manejo sintáctico*. Codirector: Igor Bolshakov; 2000-11-29.
Now: Miembro del **SNI nivel I** desde 2001, profesora de la UNAM (2019).

MSc



35.   Brian Daniel Herrera González, MSc, CIC-IPN. *Automatic Generation of Fiction Stories Using Human-Like Writing Style*. 2021-08-06, **cum laude**. Co-advised with [Hiram Calvo](#).
Now: PhD student at the CIC-IPN, under my guidance (2021).
36.  Sergio Arturo Damian Sandoval, MSc, CIC-IPN. *Fake News Spreaders Profiling and Fake News Detection in Social Media*. 2021-07-01, **cum laude**. Co-advised with [Hiram Calvo](#).


37.   Abu Bakar Siddiquir Rahman (Bangladesh), MSc, CIC-IPN. *Deep Learning Based Summarization of Multimodal Documents*. 2021-02-12, **cum laude**. Co-advised with [Grigori Sidorov](#).
Now: PhD student at the University of Nebraska Omaha (2021).
38.   Sabur Butt (Pakistan), MSc, CIC-IPN. *Question Answering in Open Domain*. 2021-01-25, **cum laude**. Co-advised with [Grigori Sidorov](#).
Now: PhD student at the CIC-IPN, under my guidance (2021).
39.  Muhammad Hammad Fahim Siddiqui (Pakistan), CIC-IPN. *Social Media Emotion Detection*. 2020-07-20.
Now: PhD student at the University of Ottawa, under my co-guidance (2020).
40.   Jason Efraín Angel Gil (Colombia), CIC-IPN. *Unrestricted Bridging Anaphora Resolution using Lexical Information*. 2019-06-28, **cum laude**. Co-advised with [Roberto Navigli](#).
Now: PhD student at the CIC-IPN, under my guidance (2019).
41.   Daniel Alejandro Pérez Álvarez (Cuba), CIC-IPN. *Atribución de autoría en la música mediante el uso de aprendizaje automático*. 2019-06-28, **cum laude**.
Now: PhD student at the CIC-IPN, under my guidance (2019).
42. Arturo Hernández Miranda, MSc, CIC-IPN. *Funciones léxicas en español utilizando embeddings*. 2019-01-17. Co-advised with [Olga Kolesnikova](#).
43.   Christian Efraín Maldonado Sifuentes, MSc, CIC-IPN. *Automatic Detection of Linguistic Features of Influential News Tweets*. 2018-07-05, **cum laude**. Co-advised with [Grigori Sidorov](#).
Now: PhD student at the CIC-IPN (2019).
44.  Francisco Javier García López, MSc, CIC-IPN. *Analysis of Associations between Financial Time Series and Social Network Activity*. 2018-01-11, **cum laude**. Co-advised with [Ildar Batyrshin](#).
45.  Roddy Fuentes Alba (Cuba), MSc, CIC-IPN. *Author Profiling using Deep Learning*. 2018-01-09, **cum laude**.
46.  Sergio Andrés Mancera Nomesque (Colombia), MSc, CIC-IPN. *Automatic Extraction of Regional Words from Social Networks*. 2017-12-14, **cum laude**.
47.  Yarik Menchaca Resendiz, MSc, CIC-IPN. *Stress and Relaxation Strength Detection of Spanish Tweets*. 2017-12-05, **cum laude**.
48.  Steffy Mónica Robles Ruíz, MSc, CIC-IPN. *Reconocimiento automático de glifos mayas*. 2017-07-05, **cum laude**. Co-advised with [Hiram Calvo](#).

49.      Navonil Majumder (India), MSc, 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; cum laude; 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).

Now: PhD (graduated under my guidance) by CIC-IPN, under my guidance. Post-doctoral student at the [DeCLaRe Lab](#), [Singapore University of Technology and Design](#), Singapore.

50.   Jesús Alexander Alvarado Gutiérrez, MSc, CIC-IPN. *Knowledge-Rich Techniques for Anaphora Resolution*. 2016-12-19, **cum laude**. Co-advised with [Olga Kolesnikova](#).

51.  Pabel Carrillo Mendoza, MSc, CIC-IPN. *Multi-document Summarization using Intra-document and Inter-document Redundancy*. 2016-12-19, **cum laude**. Co-advised with [Hiram Calvo](#).

52. Hugo Librado Jacobo, MSc, CIC-IPN. *Análisis automático de opiniones de productos en redes sociales*. 2016-01-28. Co-advised with [Grigori Sidorov](#).








53.   Francisco Gabriel Sandoval Flores, MSc, CIC-IPN. *Minería de textos para búsqueda de fundamentos jurídicos en sentencias*. 2016-01-18, **cum laude**. Co-advised with [Hiram Calvo](#).

Now: PhD student at the CIC-IPN, under my guidance (2017).

54. Cristina Alicia Díaz Jiménez, MSc, CIC-IPN. *Coreference resolution using methods of word sense disambiguation*; 2014-12-18.



55.  Iván Omar Cruz García, MSc, CIC-IPN. *Polarity summarization with opinion mining*; 2014-12-12, **cum laude**. Co-advised with [Grigori Sidorov](#).

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

56.        Miguel Ángel Sánchez Pérez, MSc, CIC-IPN. *Detección automática de plagio a través de formación de pasajes*; 2014-06-09; **cum laude; 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. Co-advised with [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](#)).

Now: PhD (graduated under my guidance) by CIC-IPN, under my guidance. Works for Oracle (2020).

57.   Rodrigo Gabino Ramírez Moreno, MSc, CIC-IPN. [Generación de musica con gramaticas formales](#); 2011-12-13, **cum laude; mejor tesis** de Maestría (3^{er} 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](#)).

Now: PhD (graduated under my guidance) by CIC-IPN; Director General, Atomo Soluciones (2017).

58.   Miguel Ángel Ríos Gaona, MSc, CIC-IPN. [Word Sense Disambiguation and recognizing Textual Entailment with Statistical Methods](#). Co-advised with [Sivaji Bandyopadhyay](#) (Jadavpur University, India); 2010-06-23, **cum laude; mejor tesis de Maestría** (2^o 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](#)).

Now: PhD (graduated under my guidance) by U. Wolwerhampton, UK; Researcher, Institute for Logic, Language and Computation, University of Amsterdam, UK (2017).

59. Rigoberto Ocampo Pólito, MSc, CIC-IPN. [Detección automática de humor en textos cortos en español](#); 2010-06-18.






60. Moisés Eduardo Lavín Villa, MSc, CIC-IPN. [Construcción automática de diccionarios semánticos usando la similitud distribucional](#). Co-advised with [Grigori Sidorov](#); 2010-01-20.

61. Pedro Galicia Galicia †, MSc, CIC-IPN. [Manipulación y recuperación dinámica de información utilizando Jakarta POI-API](#). Co-advised with Oscar Fabela Cano; 2009-05-14.

Now: Professor at CIC-IPN until 2014, when he passed away.

62. Ricardo Ávila Argüelles, MSc, CIC-IPN. [Clasificación bibliotecaria automática usando identificación simple de términos con métodos lógico-combinatorios a partir de información escasa](#). Co-advised with [Hiram Calvo Castro](#); 2009-01-15.

Now: businessman (2009).

63.   Alfredo López Monroy, MSc, CIC-IPN. *Respuesta automática a preguntas sobre documentos legales en español*. Co-advised with [Hiram Calvo Castro](#); 2008-11-21, **cum laude**.
Now: PhD (graduated under my guidance) by CIC-IPN (2009).
64.   Sergio Gonzalo Jiménez Vargas (Colombia), MSc, [Universidad Nacional de Colombia](#), sede Bogotá. *A Knowledge-Based information extraction prototype for data-rich documents in the information technology domain*. Co-advised with [Fabio A. González O.](#); 2008-11-12, **cum laude** (second level).
En esta escuela, la mención meritoria se otorga en menos de 10% de casos.
Now: PhD (graduated under my guidance) by [UN Colombia](#); researcher at [Instituto Caro y Cuervo](#) (2017).
65. Diego Lara Reyes, MSc, CIC-IPN. *Sistema de segmentación automática de palabras para el español*. Co-advised with [Grigori Sidorov](#); 2008-06-18.
Now: Software developer at the bank [Bancomer](#) (2008).
66. Macario Hernández Cruz, MSc, CIC-IPN. *Generador de los grafos conceptuales a partir del texto en español*; 2007-12-05.
Now: Teacher at ESCOM-IPN (2007).
67. Tania Lugo García, MSc, CIC-IPN. *Aprendizaje automático de la base de datos estadística de combinaciones de palabras en español*. 2007-06-07.
Now: Software developer at the company [MetLife](#) (2007).
68.    Sulema Torres Ramos, MSc, CIC-IPN. *Aprendizaje supervisado de colocaciones para la resolución de la ambigüedad sintáctica*; 2006-06-22, **cum laude**.
Now: PhD (graduated under my guidance) by CIC-IPN (2017), member of [SNI](#) at excellence level **C**.
69.   Javier Leandro Tejada Cárcamo, MSc, CIC-IPN. *Desambiguación de sentidos de palabras usando relaciones sintácticas como contexto local*; 2006-06-08, **cum laude**.
Now: PhD (graduated under my guidance) by CIC-IPN; businessman (software development) and teacher at the University of Arequipa, Peru (2010).
70. Gabriela Rivera Loza, MSc, CIC-IPN. *Selección automática de las primitivas semánticas en diccionario explicativo para el español*; 2003-06-04.
71. Roberto Jurado Jiménez, MSc, 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.
Now: Teacher at ESCOM-IPN (2017).

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

Now: Teacher at ESIME-IPN (2019).

BSc


All my BSc graduates who received an MSc, received it under my guidance.

73. Vanessa San Agustín Gutiérrez, BSc, UPIITA-IPN. *Sistema de análisis lingüístico de comentarios para el apoyo del marketing boca a boca*; 2016-01-15. Co-advised with Miguel Alejandro Martínez Rosales.

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

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

Now: MSc (graduated under my guidance) by CIC-IPN; PhD (graduated under my guidance) by U. Wolverhampton, UK; Researcher, Institute for Logic, Language and Computation, University of Amsterdam, UK (2017).

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

Now: MSc (graduated under the guidance of my graduate) by UNAM, helper of Assistant Professor of category A, UNAM (2009).

In progress

76. Nasim Tohidi (Iran), AI Committee in Computer Engineering department, K.N. Toosi University of Technology, Iran. Thesis: *Syntax-Free Meaning Representation for Natural Language*. Co-advised with [Chitra Dadkhah](#). In progress since 2021-06.
77. Wei Han (Henry) (Hong Kong), PhD, Singapore University of Technology and Design, Singapore. Co-advised with [Soujanya Poria](#). In progress since 2021-01.
78. Iskander Akhmetov (Kazakhstan), PhD, Kazakh-British Technical University, Kazakhstan. Co-advised with [Alexandr Pak](#). In progress since 2020-04.
79. Olumide Ebenezer Ojo (Nigeria), PhD, CIC-IPN. Co-advised with [Hiram Calvo](#). In progress since 2020-01.
80. Jason Efraín Angel Gil (Colombia), PhD, CIC-IPN. In progress since 2020-01.
81. Noman Ashraf (Pakistan), PhD, CIC-IPN. In progress since 2019-08.
82. Hoàng Thăng Ta (Vietnam), PhD, CIC-IPN. In progress since 2019-08.

83. Daniel Alejandro Pérez Álvarez (Cuba), PhD, CIC-IPN. *Generación automática de música polifónica mediante técnicas de procesamiento de lenguaje natural y aprendizaje profundo*. Co-advised with [Grigori Sidorov](#). In progress since 2019-08.
84. Antonio Jesús Tamayo Herrera (Colombia), PhD, CIC-IPN. *Machine Learning Model for Multilingual and Cross-Domain Negation Scope Detection*. In progress since 2019-08.
85. Carlos Alberto Rodríguez Díaz (Colombia), PhD, CIC-IPN. Co-advised with [Sergio Gonzalo Jiménez Vargas](#). In progress since 2019-01.
86. Jesús Alexander Alvarado Gutiérrez, PhD, CIC-IPN. *Resolución de correferencia con aprendizaje profundo*. Co-advised with Olga Kolesnikova. In progress since 2018-08.
87. Francisco Gabriel Sandoval Flores, PhD, CIC-IPN. *Automatic Legal Case Resolution Based on Textual Description Using Deep Learning*. Co-advised with [Hiram Calvo](#). In progress since 2017-01.
88. Reyna Elia Melara Abarca. PhD, CIC-IPN. *Similitud léxico-semántico en corpus de textos grandes coherente*. Co-advised with [Sofía Galicia Haro](#) (UNAM). In progress since 2009-01.
89. Riyanka Manna (India), PhD, Jadavpur University, India, Co-advised with [Dipankar Das](#). In progress since 2017-01.
90. Claudia Jeanneth Becerra Cortés (Colombia), PhD, [Universidad Nacional de Colombia](#), sede Bogotá. Co-advised with [Fabio A. González O](#). In progress since 2010-08.
91. Mykola Lukashchuk (Ukraine), MSc, CIC-IPN. In progress since 2020-01.
92. Sara Besharati (Iran), MSc, CIC-IPN. In progress since 2020-01.
93. Seyed Habib Hosseini Saravani (Iran), MSc, CIC-IPN. In progress since 2020-01.
94. Victor Manuel Palma Preciado, MSc, CIC-IPN. *Automatic Detection of Jokes in Texts*. Co-advised with [Grigori Sidorov](#). In progress since 2019-01.
95. María Elena Ensastegui Ortega, MSc, CIC-IPN. Co-advised with [Hiram Calvo](#). In progress since 2019-08.
96. Alexis Piña Aquino, MSc, CIC-IPN. *Aprendizaje de actos del habla para el manejo de diálogos orientados a un fin*. Co-advised with [Hiram Calvo](#). In progress since 2018-01.

Courses Delivered and Developed

Courses delivered:

Note: This list is incomplete.

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).

Courses Developed:

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.

Keynote Talks

Highly prestigious international conferences

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 IWOB 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](#), 10th 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](#), 9th 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^o Congreso Ecuatoriano de tecnologías de información y comunicación (5th 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](#), 6th 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 6th 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^{er} Congreso Internacional de Lingüística Computacional y de Corpus (1st Internatinal 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 [MICA 2015](#), 14th 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](#), 2nd 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 9th 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 5th International Conference on Computer Science ENC-2005, Puebla, Mexico, 2005; proceedings IEEE CS Press.
19. *Natural Language Processing*. Keynote talk at [HIS 2005](#), 5th 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^o Congreso Mundial de Juventudes Científicas — 4th 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^a Conferencia Latinoamericana de Informática (30th 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.

Other conferences

Note: This list is very incomplete and not maintained anymore due to too large number of items.

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^o 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^r 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^{er} 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), 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.

Media coverage, interviews, media participation

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 Cachelín. Agencia informativa del Consejo Nacional de Ciencia y Tecnología (Press Agency of the Mexican Ministry of Science), December 13, 2016.

Editorial Work and Non-Peer-Reviewed and Other Publications

Editor-in-Chief, Associate Editor, or Editorial Board Member of Journals

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*, (*Computing and Systems*) Ibero-American computing journal. 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, scientific-popular magazine of the Mexican Society of Artificial Intelligence ([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.

Edited Books and Journal Issues

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*. 4th 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](#). 6th 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](https://doi.org/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](#). 6th 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](https://doi.org/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](#). 6th 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](https://doi.org/10.1007/978-3-319-20469-7).
21. [Alexander Gelbukh](#) (Ed.). [Computational Linguistics and Intelligent Text Processing. Proceedings](#). 16th 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](https://doi.org/10.1007/978-3-319-18111-0).
22. [Alexander Gelbukh](#) (Ed.). [Computational Linguistics and Intelligent Text Processing. Proceedings](#). 16th 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](https://doi.org/10.1007/978-3-319-18117-2).
23. [Alexander Gelbukh](#), [Félix Castro Espinoza](#), [Sofía N. Galicia-Haro](#) (Eds.). [Human-Inspired Computing and Its Applications](#). 13th 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](https://doi.org/10.1007/978-3-319-13647-9).

24. [Alexander Gelbukh](#), Félix Castro Espinoza, Sofía N. Galicia-Haro (Eds.). *Nature-Inspired Computation and Machine Learning*. 13th 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*. 15th 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.
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Note: There is one more JCR-indexed paper JCR under reviews. There are six more papers published in journals that were indexed before, but not in the year of publication.

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