

Dr. Manuel Montes y Gómez

Curriculum Vitae

National Institute of Astrophysics, Optics and Electronics

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Current Research Interests

- Image retrieval combining textual and visual information
- Supervised approaches for plagiarism detection
- Multimodal ensembles for authorship attribution
- Text classification based on language models and maximal sequences
- Methods for dynamic (query-dependend) information fusion
- Multilingual document clustering and classification
- Statistical-based models for question answering
- Text classification using the Web as corpus
- Information retrieval using conceptual graphs

Current Job

Titular Researcher C

Department of Computational Sciences

National Institute of Astrophysics, Optics, and Electronics. MEXICO.

Recent Research Projects

Microsoft LACCIR 2013-2015 . Multimodal image retrieval to support medical case--based scientific literature search. Project Coordinator: Dr. Fabio González.

CONACYT 2011-2014 Un nuevo enfoque de clasificación de textos basado en el consenso de documentos similares. *Individual Project*. Project leader: Dr. Manuel Montes.

EUROPEAN COMMISSION FP7 2011-2015	WIQ-EI—Web Information Quality Evaluation Initiative. <i>International Research Staff Exchange Project</i> . Project Coordinator: Dr. Michael Granitzer. INAOE's coordinator: Dr. Manuel Montes.
CONACYT- INNOVAPYME 2013	Analíticas de voz basadas en habilidades suaves en call centers. PROJECT Leader: Dr. Manuel Montes. In collaboration with PROINTBIS, S.A.P.I DE C.V.

Studies

February 26, 2002	<i>Ph. D. in Computer Science</i> Center for Computing Research (CIC) National Polytechnic Institute (IPN), MEXICO.
August 17, 1998	<i>M. Sc. in Electronics</i> National Institute of Astrophysics, Optics and Electronics (INAOE), MEXICO.
May 21, 1996	<i>Bachelor in Electronics</i> Morelia Institute of Technology, MEXICO.

Visiting Research Positions

August 2010 – July 2011	Visiting Professor Department of Computer and Information Sciences <i>University of Alabama at Birmingham, USA.</i>
April 8-21, 2007	Invited Professor Group of Intelligent Information Access Systems <i>University of Jaén, SPAIN.</i>
April – December, 2004	Postdoctoral Fellow Department of Information Systems and Computation <i>Polytechnic University of Valencia, SPAIN.</i>
July 19-30, 2004	Invited Professor Dipartimento di Informatica e Scienze dell'Informazione, <i>Università degli Studi di Genova, ITALY.</i>
June 2000 – April 2001	Doctoral visiting Student Department of Computer Science <i>University of Chile, CHILE.</i>

Awards and Scholarships

- 2014 *First Prize Award* at the International Competition on Author Profiling. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2014. Sheffield, UK, September 2014.
- 2014 Distinction as *Regular Member of the Mexican Academy of Sciences*, from January 2014.
- 2013 *First Prize Award* at the International Competition on Author Profiling. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2013. Valencia, Spain, September 2013.
- 2013 Distinction as *National Researcher Level II* by the National Research System (SNI) of the Mexican Government, 2013-2017.
- 2012 *First Prize Award* at the 1st International Competition on Sexual Predator Identification. Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse, PAN 2012. Rome, Italy, September 2012.
- 2009 *EGRETEC 2009 Medal* in recognition to the academic and research achievement, given by the “Asociación de Egresados del Tecnológico de Morelia”, November 13, 2009.
- 2008 Distinction as *National Researcher Level I* by the National Research System (SNI) of the Mexican Government, 2009-2012.
- 2005 Distinction as *National Researcher Level I* by the National Research System (SNI) of the Mexican Government, 2006-2008.
- 2004 *Scholarship* from the Ministry of Education, Culture and Sport of Spain for a postdoctoral research position at the Polytechnic University of Valencia, from April to December 2004.
- 2002 Distinction as *National Researcher Candidate* by the National Research System (SNI) of the Mexican Government, 2002-2005.
- 2002 *Honorable Mention*, Doctoral Dissertation, Center for Computing Research (CIC), National Polytechnic Institute (IPN), MEXICO, February 26, 2002.
- 2000 *Scholarship* from the European Project Alpha-Parnet Project for a visiting research position at the University of Chile, from June 2000 to April 2001.
- 1998 *Scholarship* from CONACYT-Mexico to accomplish my doctoral studies at the Center for Computing Research (CIC-IPN), from August 1998 to December 2001.
- 1996 *Scholarship* from CONACYT-Mexico to accomplish my master degree studies at the National Institute of Astrophysics, Optics and Electronics, from September 1996 to August 1998.

My Students' Awards

- 2011 *Best Paper Award – Third Place*, Mexican International Conference on Artificial Intelligence, MICAI 2011. Puebla, Mexico. Student: Debangana Dey (from UAB).
- 2010 *Best Ph.D Thesis Award*, 2010 SMIA Thesis Contest. SMIA is the Mexican Society for Artificial Intelligence. Student: Hugo Jair Escalante.
- 2010 *Best Master-Degree Thesis Award*, 2010 SMIA Thesis Contest. SMIA is the Mexican Society for Artificial Intelligence. Student: Ricardo Omar Chávez.
- 2010 *Best Student Paper Award*, International Joint Conference on Neural Networks, IJCNN 2010. Barcelona, Spain. Student: Hugo Jair Escalante.
- 2007 *Best Master-Degree Thesis Award*, XXI National Thesis Contest of the ANIEI. The ANIEI is the National Association of Institutions of Education in Computer Science. Student: Rosa María Ortega.
- 2007 *Best Paper Award*, International Conference on Intelligent Text Processing and Computational Linguistics (CICLING 2007), Mexico City, Mexico. Student: Rita M. Aceves.
- 2004 *First Prize Award* at the Software Development Competition, 5th National Conference of Computation, CORE 2004. Mexico City, Mexico. Student: Alberto Téllez.

Publication Record

Journal Papers indexed by JCR or CONACYT

1. MOPG: A Multi-Objective Evolutionary Algorithm for Prototype Generation. Hugo Jair Escalante, Maribel Marín-Castro, Alicia Morales-Reyes, Mario Graff, Alejandro Rosales-Pérez, Manuel Montes-y-Gómez, Carlos A. Reyes, Jesus A. González. *Pattern Analysis and Applications*. Available online February 2015.
2. Discriminative Subprofile-Specific Representations for Author Profiling in Social Media. A. Pastor López-Monroy, Manuel Montes-y-Gómez, Hugo Jair Escalante, Luis Villaseñor-Pineda, Efstathios Stamatatos. *Knowledge Based Systems*. Available online 2 July 2015.
3. Term-Weighting Learning via Genetic Programming for Text Classification. Hugo Jair Escalante, Mauricio García-Limón, Alicia Morales-Reyes, Mario Graff, Manuel Montes-y-Gómez, Eduardo Morales. *Knowledge Based Systems*, Volume 83, July 2015.
4. Detection of Positive and Negative Deceptive Opinions with PU-learning. Donato Hernández Fusilier, Manuel Montes-y-Gómez, Paolo Rosso, Rafael Guzmán-Cabrera. *Information Processing and Management*, Volume 51, Issue 4, July 2015.
5. A document is known by the company it keeps: Neighborhood consensus for short text categorization. Gabriela Ramírez-de-la-Rosa, Manuel Montes-y-Gómez, Tamar Solorio, Luis Villaseñor-Pineda. *Journal of Language Resources and Evaluation*. Vol. 47, Issue 1, March 2013.

6. Determining and Characterizing the Reused Text for Plagiarism Detection. Fernando Sanchez, Esaú Villatoro, Manuel Montes, Luis Villaseñor, Paolo Rosso. *Expert Systems with Applications*. Volume 40, Issue 5, April 2013.
7. Improving Image Retrieval by using Spatial Relations. Carlos Hernández-Gracidas, L. Enrique Sucar, Manuel Montes-y-Gómez. *Journal on Multimedia Tools and Applications*. Volume 62, Issue 2, January 2013.
8. Multi-class Particle Swarm Model Selection for Automatic Image Annotation. Hugo Jair Escalante, Manuel Montes, Enrique Sucar. *Expert Systems With Applications*. Volume 39, Issue 12, 15 September 2012.
9. Acute Leukemia Classification by Ensemble Particle Swarm Model Selection. Hugo Jair Escalante, Manuel Montes-y-Gómez, Leopoldo Altamirano, Jesús Antonio González, Pilar Gómez-Gil, Carolina Reta, Carlos A Reyes, Alejandro Rosales. *Journal of Artificial Intelligence in Medicine*, Volume 55, Issue 3, July 2012.
10. Document Ranking Refinement Using a Markov Random Field Model. Esaú Villatoro, Antonio Juárez, Manuel Montes, Luis Villaseñor, L. Enrique Sucar. *Journal of Natural Language Engineering*. Volume 18, Issue 02, 2012.
11. Semantic Cohesion for image annotation and retrieval (Extended abstract of PhD Thesis). Hugo Jair Escalante, Enrique Sucar, Manuel Montes. *Computación y Sistemas*, Vol. 16, No. 1, January-March, 2012.
12. Multimodal Indexing based on Semantic Cohesion for Image Retrieval. Hugo Jair Escalante, Manuel Montes, Enrique Sucar. *Information Retrieval*. Vol. 15, Num. 1, January 2012.
13. Learning to Select the Correct Answer in Multi-Stream Question Answering. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Anselmo Peñas-Padilla. *Journal of Information Processing and Management*. Vol. 47, Issue 6, November 2011.
14. Bilingual Document Clustering: Evaluating Cognates as Features. Claudia Denicia-Carral, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda and David Pinto-Avenidaño. *Canadian Journal of Information and Library Science*. Volume 35, Number 3, September 2011.
15. Using a Markov Random Field for Image Re-ranking Based on Visual or Textual Features. R. Omar Chávez, Manuel Montes, L. Enrique Sucar. *Computación y Sistemas*, Vol. 14, No. 4, 2011.
16. An Energy-based Model for Region-labeling. Hugo Jair Escalante, Manuel Montes, Enrique Sucar. *Computer Vision and Image Understanding*, Volume 115, Issue 6, June 2011.
17. Hacia la identificación de relaciones de hiponimia/hiperonimia en Internet. Rosa María Ortega, César Aguilar, Luis Villaseñor, Manuel Montes y Gerardo Sierra. *Revista Signos*, Volumen 44, Número 75, Marzo 2011.
18. The Segmented and Annotated IAPR-TC12 Benchmark. H. Jair Escalante, Carlos A. Hernández, Jesús A. González, Aurelio López, Manuel Montes, Eduardo Morales, Enrique Sucar, Luis Villaseñor, Michael Grubinger. *Computer Vision and Image Understanding*, Volume 114, Issue 4, April 2010.
19. Un método independiente del idioma para responder preguntas de definición. Claudia Denicia-Carral, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez. *Computación y Sistemas*, Vol.14, No.2, Oct-Dec 2010.

20. Using the Web as Corpus for Self-training Text Categorization. Rafael Guzmán-Cabrera, Manuel Montes-y-Gómez, Paolo Rosso, Luis Villaseñor-Pineda. *Information Retrieval*, Volume 12, Issue3, Springer 2009.
21. Using Machine Learning for Extracting Information from Natural Disaster News Reports. Alberto Téllez Valero, Manuel Montes y Gómez, y Luis Villaseñor Pineda. *Computación y Sistemas*, Vol. 13 No. 1, 2009.
22. Particle Swarm Model Selection. Hugo Jair Escalante, Manuel Montes, Enrique Sucar. *Journal of Machine Learning Research*, Num. 10, February 2009.
23. Mexican Experience in Spanish Question Answering. Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Aurelio López-López. *Computación y Sistemas*, Vol. 12, No 1, Julio-Septiembre, 2008.
24. Minería de Texto empleando la Semejanza entre Estructuras Semánticas. Manuel Montes y Gómez. *Computación y Sistemas*, Volumen 9 Número 1, Julio-Septiembre, 2005.
25. Tratamiento Automático de Textos en Español. Luis Villaseñor, Aurelio López, Manuel Montes, Claudia Vázquez. *Estudios de Lingüística Aplicada*, Num. 38, Diciembre 2003.
26. Mining the news: trends, associations, and deviations. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López-López. *Computación y Sistemas*, Vol 5, No. 1, July-September 2001.

Papers in LNCS and LNAI indexed by the Science Citation Index

27. Authorship Attribution using Word Sequences. Rosa María Coyotl-Morales, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez and Paolo Rosso. *Lecture Notes in Artificial Intelligence* 4225, Springer 2006.
28. A Text Mining Approach for Definition Question Answering. Claudia Denicia-Carral, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, René García Hernández. *Lecture Notes in Artificial Intelligence* 4139, Springer 2006.
29. A Straightforward Method for Automatic Identification of Marginal Languages. Ana Lilia Reyes-Herrera, Luis Villaseñor-Pineda, and Manuel Montes-y-Gómez. *Lecture Notes in Artificial Intelligence* 4139, Springer 2006.
30. Using Word Sequences for Text Summarization. Esaú Villatoro-Tello, Luis Villaseñor-Pineda and Manuel Montes-y-Gómez. *Lecture Notes in Artificial Intelligence* 4188, Springer 2006.
A Full Data-Driven System for Multiple Language Question Answering. Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Manuel Pérez-Coutiño, José Manuel Gómez-Soriano, Emilio Sanchís-Arnal, Paolo Rosso. *Lecture Notes in Computer Science* 4022, Springer 2006.
31. The role of lexical features in Question Answering for Spanish. Manuel Pérez-Coutiño, Manuel Montes-y-Gómez, Aurelio López-López and Luis Villaseñor-Pineda. *Lecture Notes in Computer Science* 4022, Springer 2006.
32. Using N-gram Models to Combine Query Translations in Cross-Language Question Answering. Rita M. Aceves-Pérez, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez. *Lecture Notes in Computer Science* 3878, Springer, 2006.

33. Language-Independent Passage Retrieval for Question Answering. José Manuel Gómez-Soriano, Manuel Montes-y-Gómez, Emilio Sanchis-Arnal, Paolo Rosso, Luis Villaseñor-Pineda. *Lecture Notes in Artificial Intelligence* 3789. Springer 2005.
34. A Passage Retrieval System for Multilingual Question Answering. José Manuel Gómez Soriano, Manuel Montes y Gómez, Emilio Sanchis Arnal, Paolo Rosso. *Lecture Notes in Computer Science* 3658. Springer 2005.
35. Question Answering for Spanish Supported by Lexical Context Annotation. M. Pérez-Coutiño, T. Solorio, M. Montes-y-Gómez, A. López-López and L. Villaseñor-Pineda. *Lecture Notes in Computer Science* 3491. Springer 2005.
36. Towards a Multilingual QA System based on the Web Data Redundancy. Rita Aceves-Pérez, Luis Villaseñor-Pineda and Manuel Montes-y-Gómez. *Lecture Notes in Artificial Intelligence*, No. 3528, Springer, 2005.
37. Question Classification in Spanish and Portuguese. Thamar Solorio, Manuel Pérez-Coutiño, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, and Aurelio López López. *Lecture Notes in Computer Science* 3406, Springer 2005.
38. A Machine Learning Approach to Information Extraction. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda. *Lecture Notes in Computer Science* 3406, Springer 2005.
39. Two Web-based approaches for Noun Sense Disambiguation. Paolo Rosso, Manuel Montes-y-Gómez, Davide Buscaldi, Aarón Pancardo-Rodríguez, and Luis Villaseñor-Pineda. *Lecture Notes in Computer Science* 3406, Springer 2005.
40. A mapping between Classifiers and Training Conditions for WSD. Aarón Pancardo-Rodríguez, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Paolo Rosso. *Lecture Notes in Computer Science* 3406, Springer 2005.
41. Toward Acoustic Models for Languages with Limited Linguistic Resources. Luis Villaseñor-Pineda, Viet Bac Le, Manuel Montes-y-Gómez & Manuel Pérez-Coutiño. *Lecture Notes in Computer Science* 3406, Springer 2005.
42. Context Expansion with Global Keywords for a Conceptual Density-Based WSD. Davide Buscaldi, Paolo Rosso, and Manuel Montes y Gómez. *Lecture Notes in Computer Science* 3406, Springer 2005.
43. Question Answering for Spanish Based on Lexical and Context Annotation. M. Pérez-Coutiño, T. Solorio, M. Montes-y-Gómez, A. López-López and L. Villaseñor-Pineda. *Lecture Notes in Artificial Intelligence* 3315, Springer-Verlag 2004.
44. Toward a Document Model for Question Answering Systems. M. Pérez-Coutiño, T. Solorio, M. Montes-y-Gómez, A. López-López and L. Villaseñor-Pineda. *Lecture Notes in Computer Science* 3034, Springer-Verlag 2004.
45. Contextual Exploration of Text Collections. M. Montes-y-Gómez, M. Pérez-Coutiño, Villaseñor-Pineda, A. López-López. *Lecture Notes in Computer Science* 2945, Springer-Verlag 2004.
46. A Modal Logic Framework for Human-Computer Spoken Interaction. L. Villaseñor-Pineda, M. Montes-y-Gómez and J. Caelen. *Lecture Notes in Computer Science* 2945, Springer-Verlag 2004.
47. Experiments on the Construction of a Phonetically Balanced Corpus from the Web. L. Villaseñor-Pineda, M. Montes-y-Gómez, D. Vaufraydaz and J-F. Serignat. *Lecture Notes in Computer Science* 2945, Springer-Verlag 2004.

48. A Multi-agent System for Web Document Authoring. M. Pérez-Coutiño, A. López-López, M. Montes-y-Gómez, L. Villaseñor-Pineda. *Lecture Notes in Artificial Intelligence*, vol 2663, Springer, 2003.
49. A Corpus Balancing Method for Language Model Construction. L. Villaseñor-Pineda, M. Montes-y-Gómez, M. Pérez-Coutiño and D. Vaufreydaz. *Lecture Notes in Computer Science*, vol. 2588, Springer, 2003.
50. Text mining at Detail Level using Conceptual Graphs. Manuel Montes-y-Gómez, Alexander Gelbukh y Aurelio López-López. *Lecture Notes in Artificial Intelligence*, vol 2393, Springer, 2002.
51. Detecting Deviations in Text Collections: An Approach using Conceptual Graphs. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. *Lecture Notes in Artificial Intelligence*, vol 2313, Springer-Verlag, 2002.
52. A Statistical Approach to the Discovery of Ephemeral Associations among News Topics. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. *Lecture Notes in Computer Science*, vol 2113, Springer-Verlag, 2001.
53. Flexible Comparison of Conceptual Graphs. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López, Ricardo Baeza-Yates. *Lecture Notes in Computer Science*, vol 2113, Springer-Verlag, 2001.
54. Finding Correlative Associations among News Topics. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh. *Lecture Notes in Computer Science N 2004*, Springer-Verlag, 2001.
55. Information Retrieval with Conceptual Graph Matching. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh. *Lecture Notes in Computer Science N 1873*, Springer-Verlag, 2000.
56. Comparison of Conceptual Graphs. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. *Lecture Notes in Artificial Intelligence N 1793*, Springer-Verlag, 2000.
57. Document Title Patterns in Information Retrieval. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh. *Lecture Notes in Artificial Intelligence, N 1692*, Springer-Verlag, 1999.

Other journal papers

58. Multimodal Markov Random Field for Image Re-ranking based on Relevance Feedback. Ricardo Omar Chávez, Hugo Jair Escalante, Manuel Montes-y-Gómez, Luis Enrique Sucar. *ISRN Machine Vision*. Volume 2013, February 2013.
59. Expansión fonética de la consulta para la recuperación de información en documentos hablados. Alejandro Reyes-Barragán, Luis Villaseñor-Pineda, Manuel Montes-y-Gómez. *Procesamiento de Lenguaje Natural*, No. 47, September 2011.
60. Towards Multi-Stream Question Answering using Answer Validation. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda. *Informatica*, Vol. 34, No. 1, March 2010.
61. A Probabilistic Method for Ranking Refinement in Geographic Information Retrieval. Esaú Villatoro-Tello, R. Omar Chávez-García, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, L. Enrique Sucar. *Procesamiento de Lenguaje Natural*, nº 44, March 2010.

62. Bilingual Document Clustering using Translation-Independent Features. Claudia Denicia-Carral, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda and Rita M. Aceves-Pérez. *International Journal of Computational Linguistics and Applications*, Vol. 1, No. 1-2, Jan-Dec 2010.
63. Two Approaches for Multilingual Question Answering: Merging Passages vs. Merging Answers. Rita M. Aceves-Pérez, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Alfonso Ureña-López. *International Journal of Computational Linguistics and Chinese Language Processing*, Vol. 13, No. 1, March 2008.
64. Fusión de Respuestas en la Búsqueda de Respuestas Multilingüe. Rita Aceves Pérez, Manuel Montes y Gómez, Luis Villaseñor Pineda. *Procesamiento de Lenguaje Natural*, No. 38, Abril 2007.
65. Búsqueda de Colocaciones en la Web para Sinónimos de WordNet. Rafael Guzmán-Cabrera, Manuel Montes -y-Gómez, Paolo Rosso. *Acta Universitaria*, Vol. 15, No. 2, Mayo-Agosto 2005.
66. Un Método de Agrupamiento de Grafos Conceptuales para Minería de Texto. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López-López, Ricardo Baeza-Yates. *Procesamiento de Lenguaje Natural*, Vol. 27, September 2001.

Book chapters

67. Entendiendo el lenguaje natural: El reconocimiento de la implicación textual y su aplicación a la validación de respuestas. Alberto Téllez Valero, Manuel Montes y Gómez y Luis Villaseñor Pineda. *Inteligencia en computadoras y en robots*. José Negrete (coord.). Editorial de la Universidad Veracruzana. 2013. ISBN 978-607-502-247-1.
68. Particle Swarm Model Selection. Hugo Jair Escalante, Manuel Montes and Enrique Sucar. In Isabelle Guyon, Gavin Cawley, Gideon Dror, and Amir Saffari (Editors). *Hands on Pattern Recognition, Challenges in Machine Learning Series*, Vol. 1, pp. 309--344, Microtome Publishing, Brookline, Massachusetts, 2011. ISBN-13: 978-0-9719777-1-6.
69. Information Retrieval with the Extra-Topical Information extracted from Document Titles. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López-López. In A. Guzman, R. Menchaca (Editors). *Selected papers CIC-1999*. CIC, IPN, Mexico City, 2000. ISBN 970-18-4250-2.
70. Document intentions expressed in titles. Extraction, representation, and possible use. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López-López. In A. de Albornoz-Bueno et al. (Editors). *Selected Works 1997-1998*. Centro de Investigación en Computación, Instituto Politécnico Nacional, Mexico, 1999. ISBN 970-18-3427-5.

Edited books and journal issues

71. Special Issue: "Procesamiento de Lenguaje Natural". *Komputer Sapiens*, Year II, Volume I. January-June 2010. ISSN 2007-0691. Manuel Montes-y-Gómez (Invited editor).
72. Natural Language Understanding and Intelligent Access to Textual Information. Workshop proceedings. Alexander Gelbukh, Manuel Montes-y-Gómez (editors). In *MICAI-2005*, ISBN 968-891-094-5.

Papers in refereed conferences

73. Not All Character N-grams Are Created Equal: A Study in Authorship Attribution. Upendra Sapkota, Thamar Solorio, Steve Bethard, Manuel Montes. Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL HLT 2015). Denver, Colorado, USA. June 2015.
74. Detection of Opinion Spam with Character N-grams. Donato Hernández, Manuel Montes, Paolo Rosso, Rafael Guzmán. 16th International Conference on Intelligent Text Processing and Computational Linguistics, CICLing 2015, Cairo, Egypt, April 14-20, 2015. Lecture Notes in Computer Science, Volume 9042, Springer 2015.
75. Fusing Affective Dimensions and Audio-Visual Features from Segmented Video for Depression Recognition. INAOE-BUAP's Participation at AVEC'14 Challenge. Humberto Pérez, Hugo Jair Escalante, Luis Villaseñor, Manuel Montes, David Pinto, Verónica Reyes. AVEC'14 Challenge, at ACM-Multimedia 2014, Orlando, USA. November 2014.
76. Evaluating Term-Expansion for Unsupervised Image Annotation. Luis Pellegrin, Hugo Jair Escalante, and Manuel Montes-y-Gómez. Mexican International Conference in Artificial Intelligence, MICA I 2014. Tuxtla Gutiérrez, Chiapas, Mexico, November 2014.
77. Content and Style Features for Automatic Detection of Users' Intentions in Tweets. Helena Gómez, David Pinto, Manuel Montes, Grigori Sidorov, and Rodrigo Alfaro. 14th edition of the Ibero-American Conference on Artificial Intelligence, IBERAMIA 2014. Santiago de Chile, November 2014.
78. Cross-Topic Authorship Attribution: Will More Out-Of-Topic Data Help?. Upendra Sapkpta, Thamar Slorio, Manuel Montes, Paolo Rosso. 25th International Conference on Computational Linguistics, COLING 2014. Dublin, Ireland, August 2014.
79. Object Recognition with Naive Bayes-NN via Prototype Generation. Hugo Jair Escalante, Mauricio Sotomayor, Manuel Montes, and A., Pastor Lopez-Monroy. 6th Conference on Pattern Recognition, MCP R 2014. Cancun, Mexico, June 2014.
80. Pastor Monroy, Hugo Jair Escalante, Manuel Montes, Angel Cruz, Fabio González. Bag-of-Visual N-grams for Histopathology Image Categorization. Submitted to the 9th International Seminar on Medical Information Processing and Analysis (SIPAIM 2013). Mexico City, Mexico, November 2013.
81. Gabriela Ramírez, Thamar Solorio, Manuel Montes-y-Gómez, Yang Liu, Aquiles Iglesias, Lisa Bedore and Elizabeth Peña. Exploring word class n-grams to measure language development in children. Twelfth workshop on biomedical natural language processing (BIO NLP 2013). Sofia, Bulgaria, August 8-9, 2013.
82. Using PU-Learning to Detect Deceptive Opinion Spam. Donato Hernández, Rafael Guzmán, Manuel Montes, Paolo Rosso. 4th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA 2013), at NAACL 2013. Atlanta, Georgia, July 2013.
83. Sexual Predator Detection in Chats with Chained Classifiers. Hugo Jair Escalante, Antonio Juárez-González, Esau Villatoro-Tello, Manuel Montes-y-Gómez and Luis Villaseñor-Pineda. 4th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA 2013), at NAACL 2013. Atlanta, Georgia, July 2013.

84. The Use of Orthogonal Similarity Relations in the Prediction of Authorship. Upen-
dra Sapkota, Thamar Solorio, Manuel Montes, Paolo Rosso. 14th Interna-tional
Conference on Intelligent Text Processing and Computational Linguistics, CICLING
2013. Samos, Greece. March 2013. Lecture Notes in Computer Science 7817.
Springer, 2013.
85. Distributional term representations for short text categorization. Juan Manuel
Cabrera, Hugo Jair Escalante, Manuel Montes-y-Gómez. 14th International Confer-
ence on Intelligent Text Processing and Computational Linguistics, CICLING 2013.
Samos, Greece. March 2013. Lecture Notes in Computer Science 7817. Springer,
2013.
86. A New Document Author Representation for Authorship Attribution. Adrián Pastor
López-Monroy, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda, Jesús Ariel Car-
rasco-Ochoa, and José Fco. Martínez-Trinidad. 4th Mexican Congress on Pattern
Recognition (MCPR 2012). Huatulco, Mexico, June 2012. Lecture Notes in Comput-
er Science 7329 Springer 2012.
87. Instance Selection in Text Classification Using the Silhouette Coefficient Measure.
Debangana Dey, Thamar Solorio, Manuel Montes-y-Gómez, Hugo Jair Escalante.
Mexican International Conference on Artificial Intelligence (MICAI 2011). Puebla,
Mexico, November 2011.
88. A Weighted Profile Intersection Measure for Profile-based Authorship Attribution.
Hugo Jair Escalante, Thamar Solorio, Manuel Montes. Mexican Interna-tional Con-
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184. Uso del Contexto para Búsqueda de Respuestas en Español. M. Pérez-Coutiño, M. Montes-y-Gómez, A. López-López. Taller de Tecnologías del Lenguaje Humano. Encuentro Internacional de Ciencias de la Computación, ENC-04, Colima, México, Sept. 2004.
185. Estudio Comparativo de cuatro Traductores Automáticos en QA Multilingüe. Rita M. Aceves, Manuel Montes, Luis Villaseñor. Taller de Tecnologías del Lenguaje Humano. Encuentro Internacional de Ciencias de la Computación, ENC-04, Colima, México, Sept. 2004.
186. Clasificación de Texto para la Extracción de Información. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda. Taller de Tecnologías del Lenguaje Humano. Encuentro Internacional de Ciencias de la Computación, ENC-04, Colima, México, Sept. 2004.
187. Web Intelligence in México. Jesús Favela, Manuel Montes, and Edgar Chavez. WIC Research Centers Working Workshop 2004. In the 2004 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology. Beijing, China, September 2004.
188. Un Sistema de Extracción de Información sobre Desastres Naturales. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Luis Villaseñor-Pineda. 5 Congreso Nacional de Computación, CORE-2004, Ciudad de México, Mayo 2004.
189. Visualización de Recursos Textuales en la Web Semántica. M. Pérez-Coutiño, M. Montes-y-Gómez, A. López-López, L. Villaseñor-Pineda. International Conference on Computing, CIC-2003, Ciudad de México, Noviembre, 2003.
190. Elaboración de un Corpus Balanceado para el Cálculo de Modelos Acústicos usando la Web. L. Villaseñor-Pineda, M. Montes-y-Gómez, D. Vaufreydaz, J-F. Serignat. International Conference on Computing, CIC-2003, Ciudad de México, Noviembre, 2003.
191. Clasificación Automática de Textos de Desastres Naturales en México. Alberto Téllez-Valero, Manuel Montes-y-Gómez, Olac Fuentes-Chavez, Luis Villaseñor-Pineda. International Conference on Computer Science, CIICC-2003, Oaxtepec, México, 2003.
192. Gestión Automática de Información de Desastres Naturales en México. Aurelio López, Manuel Montes, Luis Villaseñor, Manuel A. Pérez, Alberto Téllez. IX Jornadas Iberoamericanas de Informática, Cartagena de Indias, Colombia, 2003.
193. Comparación Léxica de Corpus para Generación de Modelos de Lenguaje. Luis Villaseñor, Manuel Montes, Manuel Pérez, and Dominique Vaufreydaz. Multilingual Information Access and Natural Language Workshop, VII Iberoamerican Conference on Artificial Intelligence, IBERAMIA-2002, Sevilla, Spain, November 2002.
194. A Trend Discovery System for Dynamic Web Content Mining. A. Méndez-Torreblanca, M. Montes-y-Gómez, and A. López-López. XI International Conference on Computing, CIC-2002, Mexico City, Mexico, November 2002.
195. Natural Language Dialog System for Information Retrieval. J.L. Gonzalez, A. López, J. Muñoz, M. Montes, L. Villaseñor, C.A. Reyes. International Workshop on Research and Development of Human Communication Technologies for Conversational Interaction and Learning, Puebla, Puebla, Mexico, January, 2002.
196. Detección de los Patrones Raros en un Conjunto de Datos Semiestructurados. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López. X International Conference on Computing, CIC-2001, Mexico City, November 2001.

197. Minería de Texto: Un Nuevo Reto Computacional. Manuel Montes y Gómez. 3rd International Workshop on Data Mining, MINDAT-2001, Universidad Panamericana, Mexico City, October 2001.
198. Text Mining with Conceptual Graphs. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López, Ricardo Baeza-Yates. Symposium on Natural Language Processing and Knowledge Engineering, NLPKE-2001, In SMC-2001 (Systems, Man, And Cybernetics), IEEE, Tucson, USA, October 2001.
199. Discovering Association Rules in Semi-structured Data Sets. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. Workshop on Knowledge Discovery from Distributed, Dynamic, Heterogeneous, Autonomous Data and Knowledge Sources. International Joint Conference on Artificial Intelligence, IJCAI'2001. Seattle, USA, August 2001.
200. Discovering Ephemeral Associations among news topics. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. Workshop of Adaptive Text Mining. International Joint Conference on Artificial Intelligence, IJCAI'2001. Seattle, USA, August 2001.
201. Detecting the Dependencies of a Peak News Topic. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. International Conference of Computing, CIC'99, Mexico City, November 1999.
202. Extraction of Document Intentions from Titles. Manuel Montes y Gómez, Aurelio López-López, Alexander Gelbukh. Text Mining Workshop. 16th International Joint Conference on Artificial Intelligence, IJCAI'99. Stockholm, Sweden, July 31 - August 6, 1999.
203. Text Mining as a Social Thermometer. Manuel Montes y Gómez, Aurelio López-López, Alexander Gelbukh. Text Mining Workshop. 16th International Joint Conference on Artificial Intelligence IJCAI'99. Stockholm, Sweden, July 31 - August 6, 1999.
204. Nominalization in Titles: A Way to Extract Document Details. Aurelio López-López and Manuel Montes-y-Gómez. International Conference on Computing, CIC'98, Mexico City, November 1998.

Technical Reports

205. Semantic Cohesion for Image Annotation. H. Jair Escalante, Manuek Montes, Enrique Sucar. Technical report No. CCC-10-004. Coordinación de Ciencias Computacionales, INAOE. November, 2008.
206. Segmenting and Annotating the IAPR-TC12 Benchmark. H. Jair Escalante, Carlos A. Hernández, Jesús A. González, Aurelio López, Manuel Montes, Eduardo Morales, Enrique Sucar, Luis Villaseñor. Technical report No. CCC-08-005. Coordinación de Ciencias Computacionales, INAOE. November, 2008.
207. Text Mining with Conceptual Graphs. Manuel Montes y Gómez, Alexander Gelbukh, Aurelio López López, Ricardo Baeza-Yates. Technical Report, Blue series, No. 133, CIC-IPN, March 2002.
208. Flexible Comparison of Conceptual Graphs, Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López, Ricardo Baeza-Yates. Technical Report, Blue Series, No. 102, CIC-IPN, June 2001.

209. Minería de Texto empleando Grafos Conceptuales. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López, Ricardo Baeza-Yates. Technical Report, Blue Series, No. 105, CIC-IPN, June 2001
210. A Statistical Approach to the Discovery of Ephemeral Associations among News Topics. Manuel Montes-y-Gómez, Alexander Gelbukh, Aurelio López-López. Technical Report, Blues Series, No. 103, CIC-IPN, June 2001
211. Information retrieval with conceptual graph matching. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh. Technical Report, Blues Series, No. 78, CIC-IPN, August 2000
212. Minería de Texto: Estado del Arte y Aplicaciones. Manuel Montes-y-Gómez. Technical Report, Green Series, No. 26, CIC-IPN, August 1999
213. Text mining: new techniques and applications. Manuel Montes-y-Gómez, Aurelio López-López, Alexander Gelbukh, Grigory Sidorov, Adolfo Guzmán. Technical Report, Blues Series, No. 34, CIC-IPN, August 1999.

Research Projects

As project leader

CONACYT 2015-2018	Caracterización de usuarios en redes sociales: hacia un enfoque multimodal y multidominio. En convocatoria de proyectos de desarrollo científico para atender problemas nacionales.
CONACYT- INNOVAPYME 2013	Analíticas de voz basadas en habilidades suaves en call centers. Project No. 200714, 2013. In collaboration with PROINTBIS, S.A.P.I DE C.V.
CONACYT 2011-2014	Un nuevo enfoque de clasificación de textos basado en el consenso de documentos similares. (No. 134186).
CONACYT- INNOVAPYME 2012	Plataforma de procesamiento de voz y texto para mejora de servicios en call centers. Project No. 177505. In collaboration with PROINTBIS, S.A.P.I DE C.V.
CONACYT 2009-2010	Planteamiento y Evaluación de Representaciones y Estrategias para la Organización Automática de Información Multilingüe. (No. 83459)
CONACYT 2004-2007	Formulación y Evaluación de Modelos para Resolver Preguntas a partir de Textos en Español empleando Información Lingüística a Varios Niveles. (No. 43990)

As participant

CONACYT 2015-2018	Clasificación y Recuperación de Imágenes Mediante Técnicas de Minería de Textos. Project coordinator: Dr. Hugo Jair Escalante.
Microsoft LACCIR 2013-2015	Multimodal image retrieval to support medical case--based scientific literature search. Project Coordinator: Dr. Fabio González.

EUROPEAN COMMISSION FP7 2011-2015	WIQ-EI—Web Information Quality Evaluation Initiative. International Research Staff Exchange Project. Project Coordinator: Dr. Michael Granitzer.
CONACYT- SENER 2011-2013	Métodos y Tecnologías de Inteligencia Computacional y Minería de Datos para el Análisis de Soluciones y la Toma de Decisiones en Explotación de Campos Maduros. Project Leader: Dr. Leonid Sheremetov.
CONACYT 2010-2012	Recuperación de Información en Transcripciones de Habla Espontánea. Project Leader: Dr. Luis Villaseñor.
CONACYT 2007-2010	Integración de Información Visual y Textual para la Recuperación de Imágenes. <i>Group Project</i> . Project Leader: Dr. Aurelio López.
SEP/SEByN 2005-2006	Recopilación y Estructuración Automática de Contenidos Educativos Digitales a partir de la Web. Project Leader: Dr. Luis Villaseñor.
CONACYT 2003-2006	Recolección, Extracción, Búsqueda y Análisis de Información en Español. <i>Group Project</i> . Project Leader: Dr. Aurelio López.
LAFMI-CONACYT 2002-2003.	Interacción Oral Hombre-Máquina. Project Leader: Dr. Luis Villaseñor.
CONACYT 2000-2001	La compilación de un corpus representativo de contextos de palabras en español y la tecnología de la compilación, a través del mismo, del diccionario. Project Leader: Dr. Alexander Gelbukh.
CONACYT 1999-2000	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. Project Leader: Dr. Alexander Gelbukh.
CGEPI-IPN 1999-2000	Búsqueda y clasificación inteligente en las bases de datos de documentos jurídicos en el español de México. Project Leader: Dr. Alexander Gelbukh.
Senado de la Rep. Mexicana 1999-2000	Diseño y construcción de un sistema inteligente de recuperación de textos políticos de la base de datos documental del senado de la república mexicana. Project Leader: Dr. Alexander Gelbukh.
CGEPI-IPN 1999-2000	Desarrollo de un segmentador temático de textos basado en estadística y enlaces tesauricos entre terminus. Project Leader: Dr. Igor Bolshakov.

Tutorials, Seminars and other Invited Talks

Kazan, RUSSIA
September 2013

Invited Course: Novel representations and methods in text classification". 7th Russian Summer School in Information Retrieval (RuSSIR 2013). In collaboration with Dr. Hugo Jair Escalante.

Puebla, MEXICO
March 2013

Keynote Talk: A document is known by the company it keeps: Neighborhood consensus for short text categorization. International Conference on Electronics, Communications and Computers (CONIELECOMP 2013).

Bogotá, COLOMBIA September 2012	<i>Invited talk:</i> Is there anybody out there? Local bags of words for authorship attribution. Facultad de Ingeniería. Universidad Nacional de Colombia.
Bogotá, COLOMBIA September 2012	<i>Invited talk:</i> Dime con quién andas y te diré quién eres: un nuevo enfoque para la clasificación de documentos basado en el consenso de sus vecinos. Facultad de Ingeniería. Universidad Nacional de Colombia.
San Luis, ARGENTINA July 2012	<i>Tutorial:</i> "Tópicos avanzados en recuperación de información y minería de texto". Departamento de Informatica. Universidad Nacional de San Luis.
Viña del Mar, CHILE July 2012	<i>Keynote talk:</i> Dime con quién andas y te diré quién eres: un nuevo enfoque para la clasificación de documentos basado en el consenso de sus vecinos. Workshop en Procesamiento Automatizado de Textos y Corpora (WoPATeC_2012).
Santiago, CHILE July 2012	<i>Invited talk:</i> Alguien que anda por ahí: atribución de autoría usando representaciones locales de las palabras. Programa de Doctorado en Lingüística, Facultad de Letras, Universidad Católica de Chile.
Birmingham, USA October 2010	<i>Invited talk:</i> Multimodal image re-ranking based on relevance feedback. Department Seminar. Department of Computer and Information Sciences. The University of Alabama at Birmingham.
Monclova, MEXICO April 2010	<i>Tutorial:</i> Minería de Texto. Facultad de Ingeniería Mecánica y Eléctrica. Universidad Autónoma de Coahuila.
Monclova, MEXICO April 2010	<i>Invited Talk:</i> Nuevos retos en la recuperación de información Textual. Facultad de Ingeniería Mecánica y Eléctrica. Universidad Autónoma de Coahuila.
Puebla, MEXICO March 2009.	<i>Invited Talk:</i> Nuevos retos en la recuperación de información textual. Encuentro Internacional de Tecnologías de Información. Universidad Popular Autónoma del Estado de Puebla (UPAEP).
Esbjerg, DENMARK September 2008	<i>Invited Talk:</i> Improving Text Classification by Web Corpora. Esbjerg Institute of Technology, University of Aalborg.
Esbjerg, DENMARK September 2008	<i>Invited Talk:</i> Using Machine Learning for Extracting Information from Natural Disaster News Reports. Esbjerg Institute of Technology, University of Aalborg.
Morelia, MEXICO Abril, 2008	<i>Invited Talk:</i> Acceso Inteligente a la Información: Tendencias Actuales. Instituto Tecnológico de Morelia.
Madrid, SPAIN October 2007	<i>Invited Talk:</i> Búsqueda de Respuestas en Colecciones Documentales Multilingües. Departamento de Lenguajes y Sistemas Informáticos, Universidad Nacional de Educación a Distancia.

Valencia, SPAIN October 2007	<i>Invited Talk:</i> Búsqueda de Respuestas en Colecciones Documentales Multilingües. Departamento de Sistemas Informáticos y Computación, Universidad Politécnica de Valencia.
Puebla, MEXICO October 2007	<i>Invited Talk:</i> Acceso Inteligente a la Información: Tendencias Actuales. Centro de Investigación en Tecnologías de Información y Automatización (CENTIA), Universidad de las Américas.
Jaén, SPAIN April 2007	<i>Invited Talk:</i> Acceso Inteligente a la Información: Tendencias Actuales. Departamento de Informática Escuela Politécnica Superior. Universidad de Jaén.
Salamanca, MEXICO November 2006	<i>Invited Talk:</i> Procesamiento de Lenguaje Natural: Problemas y Aplicaciones. Facultad de Ingeniería Mecánica, Eléctrica y Electrónica, Universidad de Guanajuato.
Salamanca, MEXICO November 2006	<i>Tutorial:</i> Clasificación de Objetos Textuales usando la Web como Corpus. Facultad de Ingeniería Mecánica, Eléctrica y Electrónica, Universidad de Guanajuato. November 27-29, 2006.
Mexico City, MEXICO May 2006	<i>Keynote Talk:</i> Procesamiento de Lenguaje Natural y Respuesta Automática a Preguntas en Internet. 7th Conference on Computing CORE-2006.
Valencia, SPAIN June 2005	<i>Invited Talk:</i> A Machine Learning Approach to Information Extraction. Departamento de Sistemas Informáticos y Computación, Universidad Politécnica de Valencia.
Mexico City, MEXICO April 2005	<i>Invited Talk:</i> Recuperación de Pasajes para la Búsqueda de Respuestas en Colecciones Multilingües. Seminario de Investigación. Centro de Investigación en Computación, IPN.
Morelia, MEXICO March 2005	<i>Keynote Talk:</i> Procesamiento de Lenguaje Natural: Problemas y Aplicaciones. Simposium Internacional Tecnológica 2005. Instituto Tecnológico de Morelia.
Genova, ITALY July 2004	<i>Invited Talk:</i> Question Answering on the web: A preliminary study for Spanish language. Departamento de Informática y Ciencias de la Información, Universidad de Génova.
Genova, ITALY July 2004	<i>Invited Talk:</i> Predictive annotation of named entities and their contexts for QA. Departamento de Informática y Ciencias de la Información, Universidad de Génova.
Genova, ITALY July 2004	<i>Invited Talk:</i> Text Mining at Detail Level using Conceptual Graphs. Departamento de Informática y Ciencias de la Información, Universidad de Génova.
Valencia, SPAIN May 2004	<i>Invited Talk:</i> Sistemas de Búsqueda de Respuestas. Seminario de Procesamiento de Lenguaje Natural, Departamento de Sistemas Informáticos y Computación, Universidad Politécnica de Valencia.
Mexico City, MEXICO April 2004	<i>Tutorial:</i> Introducción al Tratamiento Automático del Lenguaje Español. Mexican International Conference on Artificial Intelligence, MICA I 2004.

Puebla, MEXICO November 2003	<i>Keynote Talk:</i> Procesamiento Automático de Texto: Técnicas y Aplicaciones. XXX Aniversario del Programa Educativo de Computación de la BUAP.
Cholula, MEXICO October 2003	<i>Keynote Talk:</i> Procesamiento Automático de Texto: Técnicas y Aplicaciones. 1er. Encuentro Universitario de Ciencia y Tecnología Computacional.
Puebla, MEXICO Julio 2003	<i>Invited Talk:</i> Minería de Texto: Un Nuevo Reto Computacional. 1er. Taller Regional de Recuperación de Información y Procesamiento de Lenguaje Natural, Universidad Autónoma de Puebla.
Puebla, MEXICO Julio 2003	<i>Invited Talk:</i> Laboratorio de Tecnologías del Lenguaje. 1er. Taller Regional de Recuperación de Información y Procesamiento de Lenguaje Natural, Universidad Autónoma de Puebla.
Apizaco, MEXICO October 2002	<i>Tutorial:</i> Procesamiento de Lenguaje Natural, III Symposium Internacional en Tecnologías Inteligentes, Instituto Tecnológico de Apizaco.
Morelia, MEXICO May 2002	<i>Invited Talk:</i> Tecnologías del Lenguaje para el Descubrimiento de Conocimiento. División de Estudios de Posgrado de la Facultad de Ingeniería Eléctrica, Universidad Michoacana de San Nicolás de Hidalgo.
Acatlán de Osorio, MEXICO May 2002	<i>Keynote Talk:</i> Procesamiento de Lenguaje Natural: Problemas y Aplicaciones. Instituto Tecnológico Superior de Acatlán de Osorio.
Puebla, MEXICO March 2002	<i>Invited Talk:</i> Minería de texto: Un nuevo reto computacional. Facultad de Ciencias de la Computación, Benemérita Universidad Autónoma de Puebla.
Mexico City, MEXICO October 2001	<i>Invited Talk:</i> Descubrimiento de conocimiento en conjuntos de datos semiestructurados. Seminario de Investigación, Centro de Investigación en Computación CIC-IPN.
Mexico City, MEXICO May 2000	<i>Invited Talk:</i> Minería de Texto empleando la Semejanza entre las Estructuras Semánticas. Seminario de Investigación, Centro de Investigación en Computación CIC-IPN.
Mexico City, MEXICO May 1999	<i>Invited Talk:</i> Panorama General de la Minería de Texto. 1er. Taller de Minería de Datos CIC MIDAT-99, Centro de Investigación en Computación (CIC-IPN).
Mexico City, MEXICO May 1999	<i>Round Table:</i> Minería de Datos. Foros "Computación de la Teoría a la Práctica". México, D.F., Mayo 1999.
Mexico City, MEXICO 1999	<i>Invited Talk:</i> Minería de Texto. Seminario de Sistemas de Toma de Decisiones, Data Warehouse y Minería de Datos, Centro de Investigación en Computación CIC-IPN.

Teaching Record

INAOE May-July 2015	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE Januany-May 2015	Information Retrieval. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE May-July 2014	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE Januany-May 2014	Information Retrieval. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2014	Doctoral Research Seminar. Doctoral Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2013	Artificial Intelligence. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE May-July 2013	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2013	Text Mining. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2012	Research Seminal I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2012	Information Retrieval. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2011	Research Seminal I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
UAB-USA January-June 2011	Special Topics in Text Mining. Graduate Course. Department of Computer and Information Sciences, University of Alabama at Birmingham (60 hours).
UAB-USA August-December 2010	Special Topics on Information Retrieval. Graduate Course. Department of Computer and Information Sciences, University of Alabama at Birmingham (60 hours)
INAOE January-May 2010	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE May-July 2009	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE May-July 2009	Programming and Data Structures. Master Degree Admission Course. Coordination of Computacional Science
INAOE January-May 2009	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2007	Research Seminal I. Master Degree Course. Coordination of Computacional Sciences (45 hours).

INAOE May-July 2007	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2007	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2006	Artificial Intelligence. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE June-July 2006	Programming and Data Structures. Master Degree Admission Course. Coordination of Computacional Science.
INAOE May-July 2006	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2006	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE June-August 2005	Automatic Text Processing II. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2005	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2004	Automatic Text Processing I. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE August-December 2003	Artificial Intelligence. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE May-July 2003	Automatic Text Processing. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-May 2003	Introduction to Language Technologies. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE January-June 2003	Databases. Course for the personal of the Mexican Army.
INAOE August-December 2002	Object Oriented Tecnologies. Master Degree Course. Coordination of Computacional Sciences (45 hours).
INAOE June-July 2002	Programming and Data Structures. Master Degree Admission Course. Coordination of Computacional Science.
INAOE June-July 2002	Introdcutio to Object Oriented Laguages. Course for the personal of the Mexican Army.

Supervised Thesis

- Ph. D.* 2010
1. Una representación basada en atributos multilingües para el agrupamiento de documentos. María Claudia Denicia Carral. Instituto Nacional de Astrofísica, Óptica y Electrónica. November 29, 2010. (Co-supervised with Luis Villaseñor).

- Ph. D.* 2010 2. Método de Fusión Dinámica aplicado a la Recuperación de Información. Antonio Juárez González. Instituto Nacional de Astrofísica, Óptica y Electrónica. November 22, 2010. (Co-supervised with Luis Villaseñor).
- Ph. D.* 2010 3. Ordenamiento Basado en Ejemplos para la Recuperación de Información Geográfica. Esaú Villatoro Tello. Instituto Nacional de Astrofísica, Óptica y Electrónica. October 11, 2010. (Co-supervised with Luis Villaseñor).
- Ph. D.* 2010 4. Anotación y Recuperación de Imágenes usando Características Visuales y Textuales. Hugo Jair Escalante Balderas. Instituto Nacional de Astrofísica, Óptica y Electrónica. March 25, 2010. (Co-supervised with Enrique Sucar).
- Ph. D.* 2009 5. Categorización Semi-Supervisada de Documentos Usando la Web como Corpus. Rafael Guzmán Cabrera. Universidad Politécnica de Valencia. SPAIN. November 24, 2009. (Co-supervised with Paolo Rosso).
- Ph. D.* 2009 6. Validación de Respuestas Reconociendo la Implicación Textual. Alberto Téllez Valero. INAOE, September 17, 2009. (Co-supervised with Luis Villaseñor).
- Ph. D.* 2008 7. Búsqueda de Respuestas en Fuentes Documentales Multilingües. Rita Marina Aceves Pérez. INAOE, February 6, 2008. (Co-supervised with Luis Villaseñor).
- Ph. D.* 2006 8. Búsqueda de Respuestas con base en Anotación Predictiva de Contextos Léxico-Sintácticos. Manuel Alberto Pérez Coutiño. INAOE, March 15, 2006. (Co-supervised with Aurelio López)
- Master Degree* 2015 9. Recomendación de Códigos CIE-10 a Diagnósticos Médicos en Escenarios a Gran Escala. Blanca Bertha Velasco Sustaita. INAOE, February 2015. (Co-supervised with Luis Villaseñor).
- Master Degree* 2014 10. Detección de similitud semántica en textos cortos. Miguel Ángel Álvarez Carmona. INAOE, November 2014. (Co-supervised with Jesús González).
- Master Degree* 2013 11. A Domain Adaptation Method for Text Classification based on Self-adjusted Training Approach. Iván Garrido Márquez. INAOE, August 2013. (Co-supervised with Luis Villaseñor).
- Master Degree* 2012 12. Clasificación de Textos Cortos Usando Representaciones Distribucionales de los Términos. Juan Manuel Cabrera Jiménez. Instituto Nacional de Astrofísica, Óptica y Electrónica. October, 2012. (Co-supervised with Hugo Jair Escalante)
- Master Degree* 2012 Atribución de Autoría utilizando distintos tipos de características a través de una nueva representación. Adrián Pastor López Monroy Instituto Nacional de Astrofísica, Óptica y Electrónica. July 18, 2012. (Co-supervised with Luis Villaseñor)
- Master Degree* 2010 13. Clasificación de textos utilizando información inherente al conjunto a clasificar. Adriana Gabriela Ramírez de la Rosa. Instituto Nacional de Astrofísica, Óptica y Electrónica. December 2, 2010. (Co-supervised with Luis Villaseñor)

- Master Degree* 2010 14. Ordenamiento de imágenes recuperadas utilizando un enfoque de fusión de información multimodal. Ricardo Omar Chávez García. Instituto Nacional de Astrofísica, Óptica y Electrónica. September 2, 2010. (Co-supervised with Enrique Sucar)
- Master Degree* 2009 15. Métodos de Refinamiento de la clasificación Translingüe de Documentos. Adelina Escobar Escobedo. INAOE. September 29, 2009. (Co-supervised with Luis Villaseñor)
- Master Degree* 2009 16. Un método de clasificación multi-etapa para el direccionamiento de solicitudes en un centro de llamadas. Fernando Uceda. INAOE. January 27, 2009. (Co-supervised with Luis Villaseñor)
- Master Degree* 2009 17. Clasificación Automática de Textos usando Reducción de Clases basada en Prototipos. Juan de Dios Álvarez. INAOE. January 23, 2009. (Co-supervised with Luis Villaseñor)
- Master Degree* 2008 18. Clasificación de Entidades Nombradas usando Información Global. Carolina Sánchez. INAOE. November 27, 2008. (Co-supervised with Aurelio López)
- Master Degree* 2008 19. Un Método para Recuperación de Información en Documentos Orales basado Codificación Fonética. Manuel Alejandro Reyes Barragán. INAOE. August 20, 2008. (Co-supervised with Luis Villaseñor)
- Master Degree* 2008 20. Expansión Automática de Peticiones en Búsqueda de Respuestas. María del Rosario Peralta Calvo. INAOE. February 27, 2008. (Co-supervised with Luis Villaseñor)
- Master Degree* 2008 21. Recuperación de Pasajes orientada a la Resolución de Preguntas con Restricción Temporal. Gustavo Hernández Rubio. INAOE, February 1, 2008. (Co-supervised with Luis Villaseñor)
- Master Degree* 2008 22. Descubrimiento de Patrones Léxicos para Extracción de Información. Claudia Patricia Orta Palacios. INAOE, January 31, 2008. (Co-supervised with Luis Villaseñor)
- Master Degree* 2007 23. Descubrimiento Automático de Hipónimos en Texto no Estructurado. Rosa María Ortega Mendoza. INAOE, December 11, 2007. (Co-supervised with Luis Villaseñor)
- Master Degree* 2007 24. Clasificación Automática de Textos considerando su Estilo de Redacción. Rosa María Coyotl Morales. INAOE, February 22, 2007. (Co-supervised with Luis Villaseñor)
- Master Degree* 2007 25. Generación Automática de Resúmenes de Múltiples Documentos. Esaú Villatoro Tello. INAOE, February 1, 2007. (Co-supervised with Luis Villaseñor)
- Master Degree* 2007 Respondiendo Preguntas de Definición mediante el Descubrimiento de Patrones Léxicos. María Claudia Denicia Carral. INAOE, January 31, 2007. (Co-supervised with Luis Villaseñor)
- Master Degree* 2007 26. Extracción de Respuestas mediante Aprendizaje Automático utilizando Atributos Léxicos. Antonio Juárez González. INAOE, January 15, 2007. (Co-supervised with Luis Villaseñor)
- Master Degree* 2006 27. La Web como Recurso Lingüístico para la Desambiguación del Sentido de las Palabras. Aarón Pancardo Rodríguez. INAOE, February 27, 2006. (Co-supervised with Luis Villaseñor)

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| <i>Master Degree</i>
2005 | 28. Extracción de Información con Algoritmos de Clasificación. Alberto Téllez Valero. INAOE, February 22, 2005. (Co-supervised with Luis Villaseñor) |
| <i>Master Degree</i>
2005 | 29. Búsqueda de Respuestas mediante Redundancia en la Web. Alejandro del Castillo Escobedo. INAOE, February 25, 2005. (Co-supervised with Luis Villaseñor) |
| <i>Bachelor</i>
2007 | 30. Búsqueda de Respuestas en la Web: el Valenciano en Tareas Mono y Translingües. José Luis Peñarrubia Carrión. Universidad Politécnica de Valencia. SPAIN, April, 2007. (Co-supervised with Paolo Rosso) |
| <i>Bachelor</i>
2005 | 31. Sistemi di Question Answerng Multilingue: L'importante Ruolo della Traduzione. Sabatino Larosa. Facoltà di Scienze Matematiche, Fisiche e Naturali, Dipartimento di Informatica e Scienze dell'Informazione, Università degli Studi di Genova. ITALY, 2005. (Co-supervised with Stefano Rovetta and Paolo Rosso). |

Organization of Scientific Conferences

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| International
2013 | 1. First Latin American Workshop on Language technologies. Puebla, Mexico. July, 2013. |
| National
2012 | 2. 9th National Workshop of Language Technologies. National Institute of Astrophysics, Optics, and Electronics, Puebla, Mexico, October 2012. |
| National
2011 | 3. 8th National Workshop of Language Technologies. At MICAI-2011 Conference. Puebla, Mexico, November 2011. |
| National
2010 | 4. 7th National Workshop of Language Technologies. National Institute of Astrophysics, Optics, and Electronics, Puebla, Mexico, October 2010. |
| National
2009 | 5. 6th National Workshop of Language Technologies. National Institute of Astrophysics, Optics, and Electronics, Puebla, Mexico, October 2009. |
| National
2008 | 6. Doctoral Consortium, at the 7th Mexican International Conference on Artificial Intelligence (MICAI 2008). Mexico City, Mexico, October 2008. |
| National
2008 | 7. 5th National Workshop of Language Technologies. National Institute of Astrophysics, Optics, and Electronics, Puebla, Mexico, November 2008. |
| National
2007 | 8. 4th National Workshop of Language Technologies. National Institute of Astrophysics, Optics, and Electronics, Puebla, Mexico, October 2007. |
| National
2007 | 9. Doctoral Consortium. At ENC-2007 Conference. Morelia, Mexico, September 2007. |
| National
2006 | 10. 3rd National Workshop of Language Technologies. At ENC-2006 Conference. San Luis Potosí, Mexico, September 2006. |
| National
2005 | 11. 2nd do National Workshop of Language Technologies. At ENC-2005 Conference. Puebla, Mexico, September 2005. |

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| International
2005 | 12. Workshop "Advances in Natural Language Understanding and Intelligent Access to Textual Information". At the Fourth Mexican International Conference on Artificial Intelligence (MICA I 2005). Monterrey, Mexico, 2005. |
| National
2004 | 13. 1 st National Workshop of Language Technologies. At ENC-2004 Conference. Colima, Mexico, September 2004. |

Affiliation to Scientific Organizations

National	Regular Member of the Mexican Academy of Sciences (AMC), starting at 2014.
International	Member of the Association of Computational Linguistics (ACL), from June 2011 to date.
International	Member of the Spanish Society for Natural Language Processing. From 2008 to date.
Internacional	Member of the Computing Society of IEEE. Member number 41566572. From 2003 to 2005.
Nacional	Member of the Mexican Society of Artificial Intelligence (SMIA), Member number 527. From April 2002 to date.
Nacional	Member of the Mexican Association for Natural Language Processing. From January 2002 to date.
