Ping Chen

Science Building S-3-115
Department of Engineering
University of Massachusetts Boston
100 Morrissey Blvd.
Boston, MA 02125-3393

Office Phone: 617.287.4221
Fax: 617.287.6433
Email: ping.chen@umb.edu
www.cs.umb.edu/~pchen
AI Lab: www.cs.umb.edu/~pchen/AILab

Research Interests

Developing systems and techniques that intelligently analyze data and natural languages. Current research projects focus on Machine Learning, Natural Language Processing, and medical data mining.

Education

Doctor of Philosophy in Information Technology (Fall 1997 - Spring 2001)

George Mason University, Fairfax, VA

Advisor: Dr. Daniel Barbara

Dissertation title: Fractal clustering and its applications to projected clustering and deviation detection

Master of Science (*with honors*) in Computer science (Fall 1994 - Spring 1997) Institute of Automation, Chinese Academy of Sciences, Beijing, China.

Advisor: Dr. Ruwei Dai, an academician of Chinese Academy of Science

Dissertation title: Automatic Chinese Poem Generation

Bachelor of Science (*with honors*) in Information Systems (Fall 1990 - Spring 1994) Xi'an Jiaotong University, Xi'an, China

Professional Experience

Associate Professor
June 2013 ~ present Department of Engineering
Director, Artificial Intelligence Lab
University of Massachusetts Boston

Associate Professor
September 2007 ~ May 2013, Department of Computer and Mathematical Sciences
Director, Artificial Intelligence Lab
University of Houston-Downtown

Assistant Professor
September 2001 ~ August 2007, Department of Computer and Mathematical Sciences,
University of Houston-Downtown

Research Assistant
September 1997 ~ June 2001, Department of Information and System Engineering, George Mason University

Senior Software Developer
March 1997 ~ August 1997, sohu.com

Research Assistant
September 1995 ~ May 1997, Institute of Automation, Chinese Academy of Sciences

Journal Publications

1. Y. Chen, Y. Wu, **P. Chen**, Recognizing Nested Named Entity based on the Neural Network Boundary Assembling Method, to appear in IEEE Intelligent Systems
2. W. Li, W. Ding, R. Sadasivam, X. Cui, **P. Chen**, His-GAN: A Histogram-based GAN Model To Improve Data Generation Quality, to appear in Neural Networks (Impact factor: 5.785).
3. J. Qiang, W. Ding, **P. Chen,** T. Wang, F. Xie, X. Wu, Heterogeneous-length Text Topic Modeling for Reader-aware Multi-Document Summarization, to appear in ACM Transactions on Knowledge Discovery from Data.
4. Carl Fakhry, Prajna Kulkarni, **P. Chen,** Rahul Kulkarni, Kourosh Zarringhalam, Prediction of bacterial small RNAs in the RsmA (CsrA) and ToxT pathways: a machine learning approach, BMC Genomics 2017, 18:645.
5. Y. Chen, Q. Zheng, **P. Chen**, A Set Space Model for Feature Calculus, IEEE Intelligent Systems, Volume: 32, Issue: 5, September/October 2017.
6. Carl Tony Fakhry, Choudhary, Parul, Gutteridge, Alex, Sidders, Ben, **Chen, Ping**, Ziemek, Daniel and Kourosh Zarringhalam. Interpreting transcriptional changes using causal graphs: new methods and their practical utility on public networks. BMC Bioinformatics, 17 (1), 2016.
7. Ji-Peng Qiang, **P. Chen**, Wei Ding, Fei Xie, Xindong Wu, Multi-document Summarization using Closed Patterns, Journal of Knowledge-based Systems, Volume 99, 1 May 2016, Pages 28–38.
8. C. Yu, W. Ding, **P. Chen**, M. Morabito, Hierarchical Spatio-Temporal Pattern Discovery and Predictive Modeling, IEEE Transactions on Knowledge and Data Engineering (TKDE), vol. 28, no. 4, pp. 979-993, April 1 2016.
9. T. Wang, **P. Chen**, D. Simovici, A New Evaluation Measure Using Compression Dissimilarity on Text Summarization, Applied Intelligence, pp 1-8, January 2016.
10. Y. Chen, Q. Zheng, **P. Chen**, A Boundary Assembling Method for Chinese Entity Mention Recognition, IEEE Intelligent Systems, No. 30 page 50-58, Nov./Dec. 2015.

11. Z. Zhang, Y. Liu, W. Ding, W. Huang, Q. Su, **P. Chen**, Proposing a New Friend Recommendation Method, FRUTAI, to Enhance Social Media Providers' Performance, Decision Support Systems, 79, C (November 2015), 46-54.
12. Y. Chen, Q. Zheng, **P. Chen**, Feature Assembly Method for Extracting Relations in Chinese, Artificial Intelligence Journal, Volume 228, November 2015, Pages 179–194.
13. D. Simovici, **P. Chen**, T. Wang, D. Pletea, Compression and Data Mining, Journal of Communication, Volume 10, No. 9, September 2015.
14. Guoqing J. Chen, Jennifer Arney, Ashley Helm, Ursula Braun, Peter Richardson, **P. Chen**, Hong-Jen Yu, and Teresa G. Hayes, Genomic-based targeted therapy and management of advanced non-small cell lung cancer: Protocol for a qualitative study of oncologists' perceptions and behaviors regarding genomic-based targeted therapy, Journal of Solid Tumors, Vol 5, No 1, 2015.
15. Yu Cao, Shawn Steffey, Jianbiao He, Degui Xiao, Cui Tao , **P. Chen**, Henning Müller, Medical Image Retrieval: A Multi-modal Approach, Cancer Informatics, 2015:7:125-136.
16. D. Wang, W. Ding, H. Lo, M. Morabito, **P. Chen**, Understanding the Spatial Distribution of Crime Based on Its Related Variables Using Geospatial Discriminative Patterns, Computers, Environment and Urban Systems, Volume 39, May 2013, Pages 93–106.
17. **P. Chen**, D. Hinote*, G. Chen, A Rule Based Solution to Co-reference Resolution in Clinical Text, Journal of the American Medical Informatics Association, 2013;20:891-897.
18. **P. Chen**, W. Ding, M. Choly*, C. Bowes*, Word Sense Disambiguation with Automatically Acquired Knowledge, IEEE Intelligent System, Volume: 27, Issue: 4 Page(s): 46 – 55, 2012.
19. R. Verma, **P. Chen**, A Data Mining Hypertextbook: Design, Implementation and Experience, Journal of Computing Sciences in Colleges, Vol. 27, Number 3 January 2012.
20. **P. Chen**, W. Ding, W. Garcia*, Adaptive Study Design through Semantic Association Rule Analysis, International Journal of Software Science and Computational Intelligence, Vol. 2, No. 3., 2011, page 34-48.
21. **P. Chen**, I. Chen, R. Verma, Designing an undergraduate data mining course by matching teaching strategies with student learning styles, Journal of Computing Sciences in Colleges, Volume 26 Issue 4, April 2011.
22. Y. Wang, W. Pedrycz, G. Baciu, **P. Chen**, G. Wang, Y. Yao, Perspectives on Cognitive Computing and Applications, International Journal of Software Science and Computational Intelligence, Vol. 2, No. 4., 2010, page 32-44
23. **P. Chen**, I. Chen, R. Verma, Improving an Undergraduate Data Mining Course with Real-world Projects, Journal of Computing Sciences in Colleges, 25, 4 (Apr. 2010), 62-67.
24. H. Lin, O. Sirisaengtaksin, **P. Chen**, A Cluster Computing Environment at a Small Institution to Support Faculty/Student Projects, Journal of Computing Sciences in Colleges, 25, 4 (Apr. 2010), 30-36.

25. **P. Chen**, W. Ding, C. Ding, A Lexical Knowledge Representation Model for Natural Language Understanding. International Journal of Software Science and Computational Intelligence, Vol. 1, No. 4, Page 17 – 35, 2009
26. H. Al-Mubaid, **P. Chen**, Application of Word Prediction and Disambiguation to Improve Text Entry for People with Physical Disabilities, International Journal of Social and Humanistic Computing, ISSN: 1752-6124, Vol.1 No.1, Page 10 – 27, 2008.
27. A. de Korvin, **P. Chen**, J. Yoon, Information Retrieval Using Relevance Vectors: A Soft Computing Approach, International Journal of Pure and Applied Mathematics, Volume 44, No. 1, 2008, 51-62.
28. K. Yue, T. A. Yang, W. Ding, **P. Chen**, Open Courseware and Computer Science Education, Journal of Computing Sciences in Colleges. Vol. 20, Issue 1. October 2004.
29. T. Yang, K. Yue, M. Liaw, G. Collins, J. Venkatraman, S. Achar, K. Sadasivam, **P. Chen**, Design of Distributed Computer Security Lab, Journal of Computing Sciences in Colleges. Volume 20, Issue 1. October 2004.
30. E. Deeba, A. de Korvin, **P. Chen**, Generating and applying rules for web documents retrieval, Far East Journal of Applied Mathematics, vol. 16(3)(2004) P249 - 272.
31. H. Lynn, **P. Chen**, C. Hu, Y. Simon, High-dimensionality 3D seismic data visualization and interpretation: Simultaneous interpretation of nine co-rendered volumes, the Canadian Society of Exploration Geophysicists Recorder, Page 28-33, June 2003.
32. D. Barbara, **P. Chen**, Using self-similarity to cluster large data sets, Journal of Knowledge Discovery and Data Mining, 7, Page 123 – 152, 2003.

Book and Book Chapters

33. **P. Chen**, D. Barbara, Fractal Clustering, Lambert Academic Publishing, 2010, ISBN: 978-3-8433-6212-2 (Ph.D Dissertation).
34. W. Ding, **P. Chen**, An Interactive Visualization Model for Large High-dimensional Datasets: A Case Study, a book chapter in Data Engineering: Mining, Information, and Intelligence. Editors: Yupo Chan, John Talburt, Terry Talley. Springer, 2009, ISBN: 978-1-4419-0175-0.
35. D. Barbara, **P. Chen**, Fractal Mining, in Data Mining and Knowledge Discovery Handbook: A Complete Guide for Practitioners and Researchers, published by Kluwer Academic Publishers, Page 627-647, 2004.
36. **P. Chen**, W. Ding, Knowledge Management for Agent-Based Tutoring Systems in Designing Distributed Learning Environments: With Intelligent Software Agents, Editor Fuhua Oscar Lin, Page 146-161, published by Idea Group, 2004.

Refereed Conference Publications

37. Tianyu Kang, Kourosh Zarringhalam, Marieke Kuijjer, **P. Chen**, John Quackenbush, and Wei Ding, Clustering on Sparse Data in Non-Overlapping Feature Space with

Applications to Cancer Subtyping, the 2018 IEEE International Conference on Data Mining (ICDM'18), Acceptance rate: 19.94%, 11/2018, Singapore

38. Zihan Li, Wei Ding, Kui Yu, Suzanne Leveille, and **P. Chen**. An Interpretable Causal Relationship Networks on Older Adults Fall Influence Factors. IEEE ICBK, 11/2018. Singapore.
39. Yanping Chen, Sha Liu, Qinghua Zheng, Ruizhang Huang, Yongbin Qin, **P. Chen**, Discovery of Rare Key Phrases, The IEEE International Conference on e-Business Engineering (ICEBE, Acceptance rate: 27.4%), Xi'an, China, 10/2018
40. **P. Chen**, F. Wu, T. Wang, W. Ding, A Semantic QA-Based Approach for Text Summarization Evaluation, the Thirty-Second AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, 2/2018.
41. Wei Li, Kevin Amaral, Xiaohui Cui, Rajani Sadasivam, and **P. Chen**, Smoking Cessation Recruitment Analysis: A Case Study, IEEE ICBK 2017, 8/2017, Hefei, China
42. Soussan Djamasbi, Mina Shojaeizadeh, **P. Chen**, John Rochford, Task Condition and Pupillometry, the 23rd Americas Conference on Information Systems, 8/2017, Boston, MA
43. T. Wang, **P. Chen**, A. Li, Predicting the Quality of Short Narratives from Social Media, the 26th International Joint Conference on Artificial Intelligence (IJCAi 2017), Australia, 8/2017.
44. J. Qiang, **P. Chen**, T. Wang, X. Wu, Topic Modeling over Short Texts by Incorporating Word Embeddings, PAKDD 2017.
45. Soussan Djamasbi, Mina Shojaeizadeh, **P. Chen**, John Rochford, Text Simplification and Pupillometry, HCI International 2017, Vancouver, Canada, 7/2017
46. Mina Shojaeizadeh, **P. Chen**, John Rochford, Soussan Djamasbi, Text Simplification and Generation Y: an Eye Tracking Study, Poster, SIGHCI workshop at International Conference of Information Systems (ICIS) 2016, Dublin, Ireland. December 11-14, 2016
47. J. Qiang, **P. Chen**, W. Ding, T. Wang, F. Xie, X. Wu Topic Discovery from Heterogeneous Texts, The 28th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2016), San Jose, CA, Nov. 2016
48. Tong Wang, **P. Chen**, Kevin Amaral and Jipeng Qiang. An Experimental Study of LSTM Encoder-Decoder Model for Text Simplification. Workshop on Human Language Technology and Intelligent Applications (HLT-IA), 25th International Joint Conference on Artificial Intelligence (IJCAI-2016) New York, USA, July 9-15, 2016
49. **P. Chen**, J. Rochford, D. Kennedy, S. Djamasbi, P. Fay, W. Scott, Automatic Text Simplification for People with Intellectual Disabilities, International Conference on Artificial Intelligence Science and Technology, July 2016. Shanghai, China.
50. J. Li, W. Huang, **P. Chen**, A Comprehensive Literature Review on Big Data in Healthcare, the 22nd Americas Conference on Information Systems, San Diego, CA. August 11 - 13, 2016

51. Carl Tony Fakhry, Kourosh Zarringhalam, **P. Chen**, Biomedical Relation Extraction Using Stochastic Difference Equations, 2015 IEEE High Performance Extreme Computing Conference(HPEC '15), September 2015, Waltham, MA
52. Q. Xia, X. Zhao, W. Huang, **P. Chen**, Cloud Computing platform Based Chinese Network Opinion Monitoring on Flu Trend, The Second International Conference on Data Science (ICDS), Sydney, Australia, August 8-9, 2015
53. J. Li, W. Huang, **P. Chen**, LDA Based Event Extraction: Detecting Influenza Epidemics Using Microblog, The Second International Conference on Data Science (ICDS), Sydney, Australia, August 8-9, 2015
54. T. Wang, Vish Viswanath, **P. Chen**, Extended Topic Model for Word Dependency, ACL-IJCNLP 2015, July 2015. Beijing, China
55. D. A. Simovici, **P. Chen**, and T. Wang, D. Pletea, Compression and Data Mining, position paper, International Conference on Computing, Networking and Communications (ICNC) 2015, Anaheim, California, February 16-19, 2015
56. K. Amaral, **P. Chen**, W. Carter and J. Sanchez, Access My Campus, the 12th International Conference on Smart Homes and Health Telematics, June 2014, Denver, CO.
57. C. Yu, W. Ding, **P. Chen**, M. Morabito, Crime Forecasting Using Spatio-Temporal Pattern with Ensemble Learning, Proceedings of the 18th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), May, 2014, Tainan, Taiwan.
58. C. Fakhry*, D. Di, **P. Chen**, Using Lexical Units to Build a Large-Scale Knowledge-base, International Symposium on Big Data and Social Network (AIS SIG-ISAP), Milan, Italy, Dec., 2013.
59. F. Bustos*, C. Ding, **P. Chen**, Visualization of Big Travel Data, International Symposium on Big Data and Social Network (AIS SIG-ISAP), Milan, Italy, Dec., 2013.
60. D. Wang, W. Ding, K. Yu, X. Wu, **P. Chen**, D. Small, S. Islam, Towards long-lead forecasting of extreme flood events: a data mining framework for precipitation cluster precursors identification, SIGKDD 2013, Chicago, IL, August 2013.
61. I. Chen, J. Nath, **P. Chen**, Education Professors Create Technology For Daily Use: A Case Study On The Process Of Creating An App, The World Association for Case Method Research & Application. BERLIN, GERMANY, July 7-11, 2013
62. L. Ghemri, **P. Chen**, Introducing Privacy in a Data Mining Course, poster, SIGCSE 2013, Denver, Colorado.
63. D. Hinote*, C. Ramirez*, and **P. Chen**, Effective Co-reference Resolution in Clinical Text, The 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems , Dalian, China, June 9, 2012
64. K. Zhao, C. Ordonez, W. Garcia*, **P. Chen**, Efficient Algorithms based on Relational Queries to Mine Frequent Graphs, PIKM Workshop in conjunction with the 19th ACM

Conference on Information and Knowledge Management CIKM 2010, Oct. 2010. Toronto, Canada.

65. **P. Chen**, A. Barrera*, C. Rhodes*, Semantic Analysis of Free Text and its Application on Automatically Assigning ICD-9-CM Codes to Patient Records, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010, Beijing, China. (Acceptance rate: 29%).
66. **P. Chen**, N. Ozoka*, R. Ortiz*, A. Tran*, D. Brown*, Word Sense Distribution in a Web Corpus, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010, Beijing, China. (Acceptance rate: 29%).
67. **P. Chen**, W. Garcia*, Hypothesis Generation and Data Quality Assessment through Association Mining, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010, Beijing, China. (Acceptance rate: 29%).
68. **P. Chen**, I. Chen, R. Verma, A. Tran*, An Undergraduate Data Mining Course Integrated with Research and Industry Projects (poster), SIGCSE 2010, March, 2010.
69. **P. Chen**, W. Ding, C. Bowes*, D. Brown*, Large-scale Dependency Knowledge Acquisition and its Extrinsic Evaluation Through Word Sense Disambiguation, the 21st IEEE International Conference on Tools with Artificial Intelligence, November 2009, New Jersey.
70. W. Ding, **P. Chen**, H. Al-Mubaid, M. Pomplun, A Gaze-Controlled Interface to Virtual Reality Applications for Motor- and Speech-Impaired Users, the 13th International Conference on Human-Computer Interaction, July 2009, San Diego, CA
71. **P. Chen**, W. Ding, C. Bowes*, D. Brown*, A Fully Unsupervised Word Sense Disambiguation Method and Its Evaluation on Coarse-grained All-words Task, NAACL 2009, Boulder, Colorado.
72. **P. Chen**, R. Verma, J. C. Meininger, W. Chan, Semantic Analysis of Association Rules, the 21st AAAI International FLAIRS Conference, May 2008, Miami, Florida.
73. R. Verma, D. Kent*, **P. Chen**, Semantic Multi-Document Update Summarization Techniques, Proceedings of the First Text Analysis Conference, 2008, National Institute of Standards and Technology, Gaithersburg, Maryland, USA
74. R. Verma, **P. Chen**, W. Lu*, A Semantic Free-text Summarization System Using Ontology Knowledge, NIST Document Understanding Conference held with NAACL-HLT 2007, April, 2007. Rochester, NY
75. H. Lin, S. Ongard, **P. Chen**, Supercomputing in undergraduate education, ACM & IEEE Super Computing (SC07), Reno, Nevada, November 9-13, 2007.
76. **P. Chen**, W. Ding, C. Ding, SenseNet: A Knowledge Representation Model for Computational Semantics, In Proceedings of the 5th IEEE International Conference on Cognitive Informatics, July 2006, Beijing, China.

77. **P. Chen**, R. Verma, A Query-based Medical Information Summarization System Using Ontology Knowledge, In Proceedings of the 19th IEEE International Symposium on Computer-Based Medical Systems, Page 37-42, June 2006, Salt Lake City, Utah.
78. **P. Chen**, H. Al-Mubaid, Context-based Term Disambiguation in Biomedical Literature, In Proceedings of The 19th AAAI International FLAIRS Conference, May 2006, Melbourne, Florida.
79. C. Ding, **P. Chen**, Mining Executive Compensation Data from SEC Filings, In Proceedings of IEEE ICDE Workshop on Challenges in Web Information Retrieval and Integration, Page 49-53, April, 2006, Atlanta, Georgia.
80. H. Al-Mubaid, **P. Chen**, Biomedical Term Disambiguation: An Application to Gene-Protein Name Disambiguation, In Proceedings of IEEE Third International Conference on Information Technology: New Generations, April 2006, Las Vegas, Nevada.
81. X. Wang, **P. Chen**, Web-Based Interactive Visualization of Data Cubes, In Proceedings of The 2005 IEEE International Conference on Modeling, Simulation and Visualization Methods, Page 136-143, June 2005, Las Vegas, Nevada.
82. A. de Korvin, **P. Chen**, C. Hu, A Genetic Algorithm Approach for Analyzing Network Intrusion Hyperalerts, In Proceedings of The 11th World Congress of International Fuzzy Systems Association, July 2005, Beijing, China.
83. H. Al-Mubaid, **P. Chen**, Context-Based Similar Words Detection and Its Application in Specialized Search Engines, In Proceedings of ACM International Conference on Intelligent User Interfaces, Page 260-264, January 2005, San Diego, CA.
84. A. de Korvin, **P. Chen**, C. Hu, Generating and Applying Rules for Interval Valued Fuzzy Observations, Lecture Notes in Computer Science, Vol. 3177, Page 279-284, Springer-Verlag, 2004.
85. D. Barbara, **P. Chen**, Self-similar Mining of Time Association Rules, In Proceedings of The Eighth Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'04), Page 86-95, Sydney, Australia, May 2004.
86. K. Yue, T. Yang, W. Ding, **P. Chen**, A model for open content communities to support effective learning and teaching, In Proceedings of International Conference on Web Based Communities, Lisbon, Portugal, March 2004.
87. **P. Chen**, C. Hu, W. Ding, H. Lynn, Icon-based Visualization of Large High-Dimensional Datasets, In Proceedings of Third IEEE International Conference on Data Mining (ICDM'03), Page 505-508, Melbourne, Florida, November 2003.
88. **P. Chen**, C. Hu, H. Lynn, Y. Simon, Visualizing High Dimensional Data, In Proceedings of Conference on Applied Research in Data Engineering 2002, Little Rock, AR, November 2002.
89. **P. Chen**, A. de Korvin, C. Hu, Association Analysis with Interval Valued Fuzzy Sets and Body of Evidence, In Proceedings of 2002 IEEE International Conference on Fuzzy Systems, Page 518-523, Honolulu, HI, May 2002.

90. D. Barbara, **P. Chen**, Tracking Clusters in Evolving Data Sets, In Proceedings of AAAI FLAIRS'2001, Page 239-243, Key West, FL, May 2001.

91. **P. Chen**, D. Wijesekera, Hierarchical and Modular Model Checking of Finite State Machines, In Proceedings of 8th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems, Vienna, VA. April 2001.

92. D. Barbara, **P. Chen**, Using the Fractal Dimension to Cluster Datasets, In Proceedings of 2000 ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Page 260-264, Boston, MA. August 2000.

Other Publications

93. Kevin M. Amaral, **P. Chen**, Scott Crouter, Wei Ding, Bag-of-Words Method Applied to Accelerometer Measurements for the Purpose of Classification and Energy Estimation, http://arxiv.org/abs/1704.01574

94. Kevin Amaral, **P. Chen**, W. Ding, Rajani Sadasivam, Sacrificing overall classification quality to improve classification accuracy of well-sought classes, PhD Forum, ICDM 2016

95. Tong Wang, **P. Chen**, John Rochford and Jipeng Qiang. Text Simplification using Neural Machine Translation, AAAI 2016 Student Abstract and Poster Program

96. **P. Chen**, A High-performance Computing Environment to Support Research and Teaching at a Minority Serving Institution, NSF Research Data Management Workshop, Experience Paper, March, 2013. Arlington, VA.

97. D. Hinote*, C. Ramirez*, and **P. Chen**, A Comparative Study of Co-reference Resolution in Clinical Text (poster), The Fifth i2b2/VA/Cincinnati Workshop on Challenges in Natural Language Processing for Clinical Data, Washington DC, Oct. 2011

98. A. Tran*, C. Bowes*, D. Brown*, **P. Chen**, M. Choly*, W. Ding, TreeMatch: A Fully Unsupervised WSD System Using Dependency Knowledge on a Specific Domain, SemEval 2010 Workshop with the 48th Annual Meeting of the Association for Computational Linguistics (ACL), July, 2010. Uppsala, Sweden.

99. **P. Chen**, W. Ding, T. Simmons*, C. Lacayo*, Parsing tree matching based question answering, NIST Text Analysis Conference, Gaithersburg, Maryland, 2008.

100. H. Lynn, **P. Chen**, C. Hu, Y. Simon, Co-rendering and Interpretation of Nine 3D-attribute volumes: Case History, Central Texas, 3D PP multi-azimuth characterization of a naturally-fractured gas reservoir, invited paper by Denver Geophysical Society, November 2002.

101. **P. Chen**, Fractal clustering and its applications to projected clustering and deviation detection, Ph.D. Dissertation, George Mason University, 2001

102. **P. Chen**, Automatic Poem Generation with Natural Language Processing Techniques, Master Thesis, Chinese Academy of Sciences, June 1997

Conference and Invited Presentations

1. What Dilemma? Mitigating Label Uncertainty to Reduce Both Model Bias and Variance, EECS, Case Western Reserve University, 10/2018
2. AI and Deep Learning Overview, 6/2018, WuHan University
3. Using Advanced Machine Learning Techniques to Discover Disease Subtypes, 2/2018, Tulane University
4. Names Entity Recognition from Chinese Text, 7/2017, Computer Science Department, Xi'an JiaoTong University, Xi'an, China.
5. Automated ICT Text Simplification for People with Cognitive Disabilities, John Rochford, Ping Chen, Fei Wu, Soussan Djamasbi, Mina Shojaeizadeh, Peter Fay, a11ybos 2016, 10/2016, Boston, MA
6. Word Sense Disambiguation, 7/2016, Wuhan University, Wuhan, China
7. Automated ICT Text Simplification for People with Cognitive Disabilities, 9/2015, Annual Boston Accessibility Conference, Boston, MA
8. Semantic Association Mining, 7/2014, School of Management, Xi'an JiaoTong University, Xi'an, China
9. Lexical Semantics and its Applications in Computational Linguistics, 9/2013, Computer Science Department, UMass Lowell.
10. Two Critical Problems in Lexical Semantics, 7/2013, Computer Science Department, Xi'an JiaoTong University, Xi'an, China.
11. Coreference Resolution, 12/2012, Computer Science Department, TianJin University, TianJin, China.
12. An Unsupervised General Word Sense Disambiguation Method, 2/2012, Computer Science Department, Texas Southern University, Houston, Texas.
13. Semantic Analysis of Free Text and its Application on Automatically Assigning ICD-9-CM Codes to Patient Records, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010. Beijing, China.
14. Urgency and Importance of Research on Knowledge Resources, The 9th IEEE International Conference on Cognitive Informatics, Cognitive Informatics and Cognitive Computing Plenary Panel, July 7-9, 2010, Beijing, China.
15. Word Sense Distribution in a Web Corpus, The 9th IEEE International Conference on Cognitive Informatics, July 7-9, 2010, Beijing, China.
16. Hypothesis Generation and Data Quality Assessment through Association Mining, the 9th IEEE International Conference on Cognitive Informatics, July 2010, Beijing, China.
17. Automated Large Scale Knowledge Acquisition and its Applications, 7/6/2010, HeFei Technology University, China

18. Large-scale Dependency Knowledge Acquisition and its Extrinsic Evaluation Through Word Sense Disambiguation, the 21st IEEE International Conference on Tools with Artificial Intelligence, November 2009, New Jersey.
19. A Fully Unsupervised Word Sense Disambiguation Method and Its Evaluation on Coarse-grained All-words Task, NAACL 2009, Boulder, Colorado.
20. Semantic Analysis of Association Rules, FLAIRS 2008. Miami, Florida, May 2008
21. Large-scale Knowledge Acquisition and Representation, College of Software, Nankai University, China. December 2007
22. Named Entity Recognition and Compensation Data Analysis, C.T. Bauer College of Business, University of Houston, August, 2007
23. Semantic Association Rule Analysis, Computer Science Department, University of Houston, June, 2007
24. SenseNet: A Knowledge Representation Model for Computational Semantics, Presentation in The 5th IEEE International Conference on Cognitive Informatics, July 2006, Beijing, China
25. Context-based Term Disambiguation in Biomedical Literature, Presentation in The 19th International FLAIRS Conference, May 2006, Melbourne, Florida
26. Mining Executive Compensation Data from SEC Filings, Presentation in ICDE Workshop on Challenges in Web Information Retrieval and Integration, April, 2006, Atlanta, Georgia
27. Context-Based Similar Words Detection and Its Application in Web Search Engines, invited talk in Conference on Computer Application 2004, Houston, Texas. April 2004
28. Icon-based Visualization of Large High-Dimensional Datasets, Third IEEE International Conference on Data Mining (ICDM'03), Melbourne, Florida, Nov. 2003.
29. Visualizing Multi-Dimensional Data, 2003 ADEL Working Paper Series, January 2003.
30. Icon-based Visualization of High-Dimensional Large Datasets, invited talk in Advanced Digital Imaging Research LLC, League City, TX, September 2002.
31. Data Representation in Clustering, invited talk in University of Central Arkansas, Conway, AR, October 2002.
32. Visualizing High Dimensional Data, Conference on Applied Research in Data Engineering 2002, Little Rock, AR, November 2002.
33. Association Analysis with Interval Valued Fuzzy Sets and Body of Evidence Proceedings of the 2002 IEEE International Conference on Fuzzy Systems, pp. 518-523, Honolulu, HI, May 2002

Patent

P. Chen, W. Ding, Word sense disambiguation apparatus and methods, US patent No. 8,260,605

Externally Sponsored Grants

1. NSF 1914489 III: Small: EAGER: Representation Learning of Connotation and Denotation Knowledge for Atomic Information Units, 7/2019-6/2020,

Sole Principal Investigator: Ping Chen

Award amount: $80,000

2. NSF 1841701 RCN: Developing a Multi-Institution Research-Practitioner Network to Enhance the Success of Diverse Students in Computer Science and Engineering From High School to the Workforce, 9/2019-8/2022

Principal Investigator: Nilanjana Dasgupta $499,366

Co-Principal Investigator: Ping Chen, Raymond Laoulache, Fred Martin, Laura Haas

3. Improving Text Comprehension of People with Cognitive Disabilities (6/1/2018-5/31/2019, Amazon)

Principal Investigator(s): Ping Chen, Soussan Djamasbi, John Rochford

Award amount: $75,000

4. **NSF 1743010:** EAGER: Advanced Machine Learning Techniques to Discover Disease Subtypes in Cancer (7/1/2017-6/2019)

Principal Investigator(s): Wei Ding

Co-Principal Investigator: Ping Chen, Kourosh Zarringhalam

Award amount: $149,881

5. **NIH 1R01HD083431-01A1:** Novel Approaches for Predicting Unstructured Short Periods of Physical Activities in Youth (6/2016-3/2020)

Principal Investigator(s): Scott E Crouter, Wei Ding, Eamonn John Keogh

Co-Principal Investigator: Ping Chen

Award amount: $1.9 M

6. **Centers for Disease Control and Prevention (CDC) 5PO1TP000307-05**: Linking Assessment to Measurement and Performance in Public Health Emergency Preparedness Exercises into Practice (10/2014-9/2016)

Principal Investigator: Vish Viswanath

Subaward: Ping Chen

Award amount: $21,000

7. **NSF CNS 1262928**: REU Site: Research Experiences in Algorithm Design and Analysis for Students in Undergraduate Institutions (5/2013-4/2016)

Principal Investigator: Ping Chen

Co-Principal Investigator: Shengli Yuan

Award amount: $322,794

8. **NIH 1SC2GM100810-01** Efficient Discovery of Medical Associations (04/2013 – 01/2016)

Principal Investigator: Ping Chen

Award amount: $ 321,281

9. **VA 1 I01 HX000955**: Value of Delivery of Targeted Therapy for Veterans with Lung Cancer (7/2013-9/2016)

Principal Investigator: Teresa Hayes, G. John Chen

Co-Principal Investigator: Ping Chen

Award amount: $841,500

10. **NSF DUE 1241661**: Enriching Security Curricula and Enhancing Awareness of Security in Computer Science and Beyond (9/2012-8/2015)

Principal Investigator: Ping Chen

Co-Principal Investigator: Shengli Yuan

Award amount: a joint project with UH, TSU, total: $770,454

11. **NSF DUE 0965952:** Undergraduate/Graduate Student Immersion in Computer Science, Technology and Mathematics (9/2010-8/2015)

Principal Investigator: Ali Berrached

Co-Principal Investigator: Ping Chen, Ongard Sirisaengtaksin, Hong Lin, Craig Cassidy, Richard Alo

Award amount: $598,088

12. **DHS #2009-ST-061-C10001**: VACCINE: Visual Analytics for Command, Control, Interoperability, National Security, Emergencies (7/2009-6/2015)

Principal Investigator: Richard Alo (Subaward)

Co-Principal Investigator: Ping Chen

Award amount: $2,109,500

13. **NSF CNS 0851984**: Research Experiences in Algorithm Design and Analysis for Students in Undergraduate Institutions (6/2009-5/2013)

Principal Investigator: Ping Chen

Co-Principal Investigator: Shengli Yuan

Award amount: $308,288

14. **NSF DUE 0737408**: An Interactive Undergraduate Data Mining Course with Industrial-Strength Projects (4/2008-3/2010)

Principal Investigator: Ping Chen

Award amount: a joint project with UH, total: $150,000

15. **NSF MRI 0619312**: Acquisition of a Computational Cluster Grid for Research and Education in Science and Mathematics (9/2006-8/2009)

Principal Investigator: Hong Lin

Co-Principal Investigator: Ping Chen, Ongard Sirisaengtaksin, Shengli Yuan, Richard Alo

Award amount: $57,173

16. **NSF DUE 0311385**: Module-Based Computer Security Courses and Laboratory for Small and Medium Sized Universities (6/2003-5/2006)

Principal Investigator: Ping Chen

Award amount: a joint project with UHCL, total: $200,000

17. **Project title**: Large-scale High Dimensional Data Visualization (6/2002-5/2003)

Funding Source: Lynn Corp.

Principal Investigator: Ping Chen

Award amount: $20,000

Internally Sponsored Grants (totally $21640)

1. Faculty Development Grant, 2002, UHD
2. Faculty Development Grant, 2003, UHD
3. Faculty Development Grant, 2004, UHD
4. Faculty Development Grant, 2005, UHD
5. Faculty Development Grant, 2007, UHD
6. Organized Research Grant, 2002, UHD
7. Organized Research Grant, 2003, UHD
8. Organized Research Grant, 2006, UHD
9. Organized Research Grant, 2008, UHD

Honors and Awards

- CUR Councilor, 2016-2019
- Ranked the first place (tie with Univ. of Texas and Microsoft) at i2b2 Challenges in Natural Language Processing for Clinical Data (www.i2b2.org/NLP/Coreference) 2011
- Pi Mu Epsilon, 2009
- Faculty Research Award finalist, University of Houston-Downtown, 2007
- IT&E Doctoral Fellowship Award, George Mason University, 2000, 2001
- Honorable mention at ACM SIGKDD, 2000
- Highest honors for top graduating student at Chinese Academy of Sciences, 1997
- Elite Award of Chinese Academy of Sciences, Chinese Academy of Sciences, 1995
- Highest honors for top graduating student at Xi'an Jiao Tong University, 1994

Teaching

A. Courses Taught

1. Lower Level (Freshman and Sophomore):

   Introduction to Computer Technology, Introduction to Computer Science with C++, Introduction to Data Structures and Algorithms, Java Programming II.

2. Upper Level (Junior and Senior):

   Introduction to Computer Organization and Assembly Language, Data and Information Structures, Object-Oriented Programming and Concepts, Computer Systems Architecture, Web Programming, Software Engineering, Computer Security, Theory of Database and File Structures, Data Mining and Data Warehousing, Human Computer Interaction, Senior Project.

B. Instructional Development

1. Develop a new B.S. degree on Information Technology at UHD, 2008
2. Set up an undergraduate research lab at UHD, 2006
3. Develop a new course CS 4325 Human Computer Interaction at UHD, 2005
4. Develop a new course CS 3318 Introduction to Computer Security at UHD, 2003
5. Develop a new course CS 4319 Data Mining and Data Warehousing at UHD, 2002

C. PhD Dissertation

PhD Dissertation Committee Chair: Tong Wang (graduated in 2018), Carl Fakhry (2018), Kevin Amaral, Hefei Qiu

PhD Dissertation Committee Member: Kaixun Hua, Mohammad Hadian , Roman Sizov, Do Hyong Koh, Shaohua Jia, Yurui Cai

D. Undergraduate Senior Projects and Theses Supervised

1. Task Management System, Philip Stackable, Fall 2001
2. Production Process for Manufacturer, Mien Trong Nguyen, Fall 2001
3. Arto-Mexico, Jose Montantes, Spring 2002
4. Hyperlink Extractions and Analysis, Beyene Tiginesh, Fall 2002
5. The Sabara Shop Database Project, Tona Raissa, Fall 2002
6. Automatic appointment scheduler system, Larry Garner, Spring 2003
7. The field of Bioinformatics, David Del Torro, Fall 2003
8. Company Executive Report System, Arron Stone, Fall 2004
9. EBao.com: An E-commerce Website, Bao Tran, Fall 2005
10. Terminal Services Security, Adnane Kidari, Spring 2006
11. VoIP and Asterisk, Muhammad Hassan, Spring 2006
12. Visualization of Optimization Strategies, Robert Anthony, Spring 2006
13. Rootkits: A Look Through the Vail, Aaron Murray, Fall 2006
14. Knowledge Representation and Acquisition with MINIPAR, Chris Bowes, Spring 2007
15. Houston Rail Train Management System, Kennedy Taplet, Fall 2007

16. BANNER7-UHD Cashier Office Management System, Juan Leon, Spring 2008
17. Lexical Knowledge Acquisition with Cluster, Gabriel Williams, Fall 2008
18. Temporal Information Extraction and Analysis, Mark Smithers, Fall 2008
19. Numerical Information Extraction and Analysis, James Griffin, Spring 2009
20. Assignment of ICD-9-CM Codes to Clinical-Free Text, Araly Barrera, Spring 2009
21. Text Visualization, Justin Rundell, Summer 2009
22. Word Sense Disambiguation, David Brown, Fall 2009
23. Application of dependency knowledge, Noble Ozoka, Spring 2010
24. 2-D Lexical Semantic Space Building, Andrew Tran , Spring 2010
25. Automatic Collocation Detection, Michael McFail, Spring 2010
26. Text animation, Rafael Ortiz, Spring 2011
27. Terrorism Information Analyzer, Antoine Williams-Baisy, Fall 2011
28. Using search engine auto suggested data to build a knowledge base for an unsupervised Word Sense Disambiguation system, Adetomiwa Oguntuga, Spring 2012
29. Coreference resolution in clinical text, Daniel Stewart, Fall 2012
30. Causal knowledge acquisition, Jack Garcia, Fall 2012

E. Undergraduate Student Publications Supervised

1. Hassan Akif, Module Based Security Courses & Security Lab, UHD Annual Student Research Conference, 2004. Poster presentation.
2. Sohail G. Penkar, Brute Force Attack on Advance Encryption Standard/Rijndael, UHD Annual Student Research Conference, 2005. Poster presentation.
3. Hassan M. Malik, Network Security and the Intrusion Detection Systems, UHD Annual Student Research Conference, 2005. Poster presentation.
4. Chris Bowes, Computational Semantics, UHD Annual Student Research Conference, 2005. Poster presentation.
5. Adnane Kidari, Terminal Services Security, UHD Annual Student Research Conference, 2006. Oral presentation.
6. Muhammad Hassan, VoIP and Asterisk, UHD Annual Student Research Conference, 2006. Poster presentation.
7. Christopher Bowes, Liem Luong, Knowledge Representation and Semantic Networking using Dependency Parser (MINIPAR), UHD Annual Student Research Conference, 2007. Oral presentation.
8. Nghia Tran and Gabriel Williams, Password Security Methods, UHD Annual Student Research Conference, 2007. Poster presentation.

9. Liem Luong, Word Similarity and Word Sense Disambiguate in Semantic Network, SACNAS National Conference, 2007. Poster presentation.
10. Araly Barrera[1], Assignment of ICD-9-CM Codes from Clinical-Free Medical Text, CAHSI Annual Conference, 2008. Poster session.
11. Carlos Lacayo, Parsing tree matching based question answering, CAHSI Annual Conference, 2008. Poster session.
12. Rebecca Kern, Collection of Collocation Events in Natural Language Processing, UHD Annual Student Research Conference, 2009
13. Tim Simmons, Carlos Lacayo, An Unsupervised Question Answering System, UHD Annual Student Research Conference, 2009
14. Rafael Ortiz, Semantic Text Categorization, UHD Annual Student Research Conference, 2010
15. Walter Garcia, Environmental Data Analysis, UHD Annual Student Research Conference, 2010
16. Michael McFail, Stanley Roberts, Automatic Detection of Collocation, UHD Annual Student Research Conference, 2010
17. Andrew Tran, Fully Unsupervised Word Sense Disambiguation Using Dependency Knowledge on a Specific Domain, UHD Annual Student Research Conference, 2010
18. Max Choly. Unsupervised Word Sense Disambiguation Using Dependency Knowledge. The 16th Annual Massachusetts Statewide Undergraduate Research Conference, April 23, 2010. Amherst, MA.
19. A. Williams-Baisy, Temporal Information Extraction, HENAAC Conference, Oct. 2010, Lake Buena Vista, Florida.
20. David Hinote, Carlos Ramirez, A Comparative Study of Co-reference Resolution in Clinical Text, IEEE Workshop on Automation and Robotics (WAR) 2011, Houston, TX, October, 2011
21. Adetomiwa Oguntuga, Using search engine data to improve the understanding of word pair correlations for a Word Sense Disambiguation project, IEEE Workshop on Automation and Robotics (WAR) 2011, Houston, TX, October, 2011
22. Tianyuan Liu, A Wi-Fi Signal Based Indoor Navigation System for People with Visual Impairment, Massachusetts Statewide Undergraduate Research Conference, 2015

Professional Service

A. University Service

1. UMB Undergrad Research Committee, 2017-2018
2. UMB Computational Science Program Committee, 2016-present

[1] Araly Barrera received 2010 NSF Graduate Research Fellowship Award.

3. UMB Safety and Emergency Preparedness Advisory Committee, 2016-present
4. UMB Joseph P. Healey Research Grant Program Review Committee, 2015, 2016
5. UMB Department of Engineering Personnel Committee, Chair, 2015-present
6. NCWIT Award, 2015
7. UMB The Majors, Honors, and Special Programs Committee, 2015-2017
8. UMB Department of Engineering Personnel Committee, 2014
9. UMB Department of Engineering Faculty Search Committee, 2014, 2016
10. UMB Department of Computer Science Faculty Search Committee, 2014
11. UMB College of Mathematics and Science Senate, 2014-present
12. UMB International School of Information Science and Library Leadership Program Committee, 2013-2017
13. UMB Access Advisory Committee, 2014-present
14. UMass Task Force on Cybersecurity, 2013-2015
15. UHD Mathematics Component Committee, 2012-2013
16. UHD Computer Science Search Committee, 2010
17. UHD International Education Committee, 2009-2012
18. UHD Faculty Affairs Committee, 2009-2012
19. UHD Academic Assessment Committee, 2007-2009
20. UHD General Policy Committee, 2008-2011
21. UHD University Grievance Committee, 2008-2012
22. UHD Computer Science Program Chair, 2007-2008
23. UHD Parking Violations and Appeals Committee, 2006-2007
24. UHD Scholarship for Future Students committee, 2006-2007
25. UHD CS Academic Screening Committee, 2005 -2006
26. UHD Library Committee, 2004-2006
27. UHD Student Publications Committee, 2004-2006
28. UHD ACM UHD chapter faculty advisor, 2004-2006
29. UHD Faculty Senate, 2001-2003
30. UHD ACM Programming Contest Judge, 2002, 2003, 2004, 2005, 2007
31. UHD Math Search Committee, 2002
32. UHD Computer Science Search Committee, 2001

B. Journal Review

1. Journal of Smart Health
2. PLOS ONE
3. Decision Support Systems
4. International Journal of Services Technology and Management
5. IEEE Transactions on Education
6. Editorial Board Member for Journal On Advances in Intelligent Systems
7. IEEE Transactions on Biomedical Engineering
8. Editorial Board Member for Journal of Emerging Technologies in Web Intelligence
9. International Journal of Artificial Intelligence Tools
10. International Journal of Data Mining and Bioinformatics
11. International Journal of Software Science and Computational Intelligence
12. Journal of the American Society for Information Science and Technology
13. Journal of Artificial Intelligence in Medicine
14. Journal of Applied Computational Intelligence and Soft Computing
15. Data and Knowledge Engineering Journal
16. Review Board Member for the International Journal of Computational Science
17. International Journal of Computers and Applications
18. Journal of Applied Soft Computing
19. International Journal of Computational Intelligence Research
20. Journal of VLSI Signal Processing-Systems for Signal, Image, and Video Technology
21. Institute of Industrial Engineers (IIE) Transactions

C. Conference Program Committee

1. 5th ACM IWSPA workshop
2. AAAI 2014, 2015, 2016, 2017, 2018, 2019
3. ICDM 2014, 2015, 2016, 2017, 2018, 2019
4. CIKM 2017, 2018, 2019
5. IEEE Healthcom 2017, 2018 (the 20th International Conference on E-health Networking, Application & Services)
6. NAACL 2018
7. IEEE CHASE 2017
8. SIGKDD 2016, 2017
9. International Conference on Bioinformatics and Computational Biology, BiCoB 2015, 2016, 2017

10. International Workshop on Security and Privacy Analytics Co-located with ACM CODASPY 2015, 2016
11. IEEE 1st International Conference on Connected Health: Applications, Systems and Engineering, 2016
12. The 8th International Conference on Bioinformatics and Computational Biology BICoB-2016
13. International Conference on Computing, Networking and Communications, Social Computing and Semantic Data Mining, 2016
14. IEEE Healthcom 2015
15. The Florida Artificial Intelligence Research Society Conference 2015, 2016
16. Sentiment Elicitation from Natural Text for Information Retrieval and Extraction Workshop 2015
17. 2015 International Conference on Computing, Networking and Communications, Social Computing and Semantic Data Mining Symposium, 2015
18. WISDOM14 (3rd Workshop on Issues of Sentiment Discovery and Opinion Mining)
19. Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE) Workshop hosted with ICDM 2013, Co-Chair
20. The 5th International Conference on Bioinformatics and Computational Biology (BICoB-2013)
21. The 26th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2013)
22. IADIS Interfaces and Human Computer Interaction 2012 (IHCI 2012) Conference
23. The 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2012) (Session Chair)
24. ACM SIGCSE 2012 (Reviewer)
25. The Fourth International Conference on Bioinformatics and Computational Biology 2012
26. The Fifth International Conference on Advances in Computer-Human Interactions (ACHI 2012)
27. IADIS Multi Conference on Computer Science and Information Systems (MCCIS 2011)
28. The Fourth International Conference on Advances in Computer-Human Interactions, ACHI 2011
29. ACM SIGCSE 2011 (Reviewer, Session Chair)
30. ACM SIGCSE 2010 (Reviewer, Session Chair)
31. Data Mining Session chair @ The 9th IEEE International Conference on Cognitive Informatics (ICCI 2010)
32. Session Chair in ITCAI 2009

33. 2009 Workshop on Social Networks, Applications, and Systems, Boston
34. Session Chair in IEEE Workshop on Automation and Robotics (WAR) 2008
35. IEEE Conference on Video and Signal Based Surveillance 2008
36. The Fourth International Conference on Autonomic and Autonomous Systems (Knowledge-based User Interface Program)
37. International Conference on Machine Learning and Applications, 2007
38. 16th International Conference on Software Engineering and Data Engineering 2007
39. International Conference of Information Technology Next Generation 2007
40. Workshop on Privacy and Security Aspects of Data Mining Held in Conjunction with the Fifth Institute of Electrical and Electronics Engineers (IEEE) International Conference on Data Mining (ICDM 2005)
41. Fifth International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'04)
42. Workshop on Privacy and Security Aspects of Data Mining Held in Conjunction with the Fourth IEEE International Conference on Data Mining (ICDM 2004)

D. Grant Proposal Review

- NIDILRR, 2017
- Austrian Science Fund, 2017
- NSF Review Panel, 2009, 2010, 2014, 2015, 2017, 2018, 2019
- Information Technologies and Telecommunications Program, Georgia National Science Foundation (external reviewer), 2009, 2011
- External Reviewer, NIH, 2010