

Rong Jin

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RESEARCH INTERESTS	Statistical machine learning and its application to large-scale data management	
EDUCATION	Carnegie Mellon University , Pittsburgh, Pennsylvania USA Ph.D., Computer Science, 2003 M.S., Computer Science, 2000 Peking University , Beijing, China M.S., Physics, 1996 Tianjin University , Tianjin, China B.S., Engineering, 1993	
HONORS AND AWARDS	NSF Career Award, 2006 Withrow Distinguished Junior Faculty Award, Michigan State University, 2009	
EMPLOYMENT	Michigan State University , East Lansing, Michigan USA Associate Professor, Department of Computer Science and Engineering Jul., 2008 - present Assistant Professor, Department of Computer Science and Engineering Aug., 2003 - Jun., 2008	
PROFESSIONAL SERVICE	Area Chair <ul style="list-style-type: none">• ACM SIGIR Conference on Research and Development on Information Retrieval (SIGIR 2009)• Asian Conference on Machine Learning (ACML 2009) Program committee member Neural Information Processing System (NIPS 2009), SIAM International Conference on Data Mining (SDM 2009), International Conference on Machine Learning (ICML 2008, 2007), ACM International Conference on Information and Knowledge Management (CIKM 2008, 2007, 2005, 2004), ACM SIGIR Conference on Research and Development on Information Retrieval (SIGIR 2008, 2007, 2006), ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2008, 2006), National Conference on Artificial Intelligence (AAAI 2008, 2005), Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2007, 2006, 2005, 2004), Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2007), Joint Conference of the International Committee on Computational Linguistics and the Association for Computational Linguistics (COLING-ACL 2006), Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing (HLT/EMNLP 2005) Reviewers: Machine Learning Journal, Knowledge and Information Systems, ACM Transactions on Information Systems, ACM Transactions on Knowledge Discovery from Data, ACM Transactions on Asian Language Information Processing, IEEE Transaction on Pattern Recognition and Machine Intelligence, IEEE Transactions on Neural Networks, IEEE Transaction on Knowledge and Data Engineering, Journal of Machine Learning Research, Journal of Artificial Intelligence Research	

RESEARCH GRANTS

- Kernel Learning for Fusing Uncertain Information from Multiple Heterogeneous Sources (\$1,398,753), ONR, 2009-2012, Co-PI
- Data Representation: Learning Kernels from Noisy Data and Uncertain Information (\$50,000), ARO, 2009-2010, PI
- Learning to Select Ads, Research gift from Yahoo! Research lab, 2009-2010 (\$25,000), PI
- Automatic Matching & Retrieval of Scars Marks & Tattoos (\$300,000), FBI, 2008-2010, Co-PI
- Large-scale Social Network Analysis (\$20,000), Research gift from NEC Laboratories America, 2008-2009, PI
- Automatic Image and Video Annotation (\$276,489), ARO, 2008-2011, Co-PI
- Develop a Dynamic Model That Incorporates Text-Mining To Reconstruct Networks (\$1,893,151), NIH, 2007 - 2011, Co-PI
- Mining Large-Scale Neural Ensemble Recordings (\$1,375,434), NIH, 2007-2011, Co-PI
- Large-scale Multi-Label Learning (\$493,212), NSF Career Award, 2007-2012, PI
- Interactive Search-Assisted Diagnosis (\$25,000), Research gift from Intel Research, 2006-2007, PI
- Discourse Processing for Conversational QA (\$322,968), ONR, 2006 - 2007, Co-PI
- NSF SBIR Phase 1: Identifying Toxicity Pathways (\$28,986), NSF, 2006-2007, PI
- Semi-Supervised Learning (\$25,000), Research gift from Intel Research, 2006-2007, PI
- Integrative Framework For Three-Stage Integrative Pathway Search (\$55,499), Michigan University Commercialization Initiative Challenge Fund, 2005-2007, Co-PI

TEACHING

- Recent Topics in Biological Networks, Systems Biology and Modeling (CHEMS 891/CMB 800), Fall 2008
- Machine Learning (CSE847), Spring 2009, 2008, 2007, 2006, 2005, 2004
- Information retrieval (CSE484), Fall 2009, 2008, 2007, 2006, 2005
- Seminar in Advance Machine Learning (CSE890), Fall 2007, 2006
- Discrete Structure (CSE260), Fall 2003

INVITED TALK

- A Potential-based Framework for Multi-class Learning with Partial Feedback, Yahoo! Research Lab, November, 2009
- Unifying Discriminative Visual Codebook Generation with Classifier Training for Object Category Recognition, Department of Computer Science, Nanjin University, December 2008
- An Extended Level Method for Multiple Kernel Learning, Microsoft Research Asia, December 2008
- An Extended Level Method for Multiple Kernel Learning, Department of Computer Science, Purdue University, November 2008
- An Extended Level Method for Multiple Kernel Learning, Yahoo!, October 2008
- Non-parametric Kernel Learning", Department of Computer Science and Engineering, University of Michigan, September 2008
- Machine Learning for Information Retrieval, tutorial at ACM SIGIR Conference, 2008, 2007, 2006
- Machine Learning for Information Retrieval, tutorial at ACM CIKM Conference, 2008, 2007
- Batch Mode Active Learning, Department of Computer Science, University of Wisconsin Madison, March 2008
- Batch Mode Active Learning, Department of Computer Science, McGill University, November 2007
- Boosting Clustering by Pairwise Constraints, Dpartement d'informatique et de recherche operationnelle, University of Montreal, November 2007
- Batch Mode Active Learning, Yahoo!, August 2007
- Boosting Clustering by Pairwise Constraints, School of Engineering, University of California Santa Cruz, Jun. 2007
- Discriminative Cluster Refinement, NEC America Lab, Jun. 2007
- Batch Mode Active Learning, Institute of Automation, Chinese Academy of Sciences, China,

December 2006

- Collaborative Image Retrieval, Tsinghua University, China, Decembe, 2006
- Generalized Maximum Margin Clustering and Unsupervised Kernel Learning, Language Technologies Institute, Carnegie Mellon University, October 2006
- Batch Mode Active Learning, Intel Research, Pittsburgh, October, 2006
- Collaborative Image Retrieval, ECE Department, University of Illinois University at Champaign, October, 2005
- Improve Boosting with Smoothing and Probabilistic Output Codes, Department of Computer Science, University of Illinois University at Champaign, October, 2005
- Collaborative Filtering, Department of Computer Science, Wayne State University, September, 2005
- Collaborative Image Retrieval, Intel Research in Pittsburgh, July, 2005
- Collaborative Filtering, CS Department, University of Rochester, March, 2005

JOURNAL PAPERS

1. S. C. H. Hoi, **R. Jin**, and M. R. Lyu, Batch Mode Active Learning with Applications to Text Categorization and Image Retrieval, IEEE Transaction on Knowledge and Data Engineering (TKDE), 21(9): 1233-1248, 2009
2. H. Cheng, P. N. Tan, and **R. Jin**, Efficient Algorithm for Localized Support Vector Machine, accepted by IEEE Transactions on Knowledge and Data Engineering (TKDE), 2009
3. X. Yang, Y. Zhou, **R. Jin**, and C. Chan, Reconstruct Modular Phenotype-specific Gene Networks by Knowledge-Driven Matrix Factorization. Bioinformatics 25(17): 2236-2243, 2009
4. S. Hoi, **R. Jin**, J. Zhu, and M. R. Lyu, Semi-Supervised SVM Batch Mode Active Learning with Applications to Image Retrieval, ACM Transaction on Information System (TOIS) 27(3), July, 2009
5. L. Yang, **R. Jin**, L. Mummert, R. Sukthankar, A. Goode, B. Zheng, S. Hoi, and M. Satyanarayanan, A Boosting Framework for Visuality-Preserving Distance Metric Learning and Its Application to Medical Image Retrieval, accepted by IEEE Transaction on Pattern Analysis and Machine Intelligence (PAMI)
6. P. K. Mallapragada, **R. Jin**, A. K. Jain, and Y. Liu, SemiBoost: Boosting for Semi-supervised Learning, IEEE Transaction on Pattern Analysis and Machine Intelligence (PAMI), 31(11): 2000-2014, 2009
7. S. Srivastava¹, L. Zhang, **R. Jin**, and C. Chan, A Novel Method Incorporating Gene Ontology Information for Unsupervised Clustering and Feature Selection, PLoS ONE, 3(12):e3860, 2008
8. **R. Jin**, L. Si, and C. Chan, A Bayesian Framework for Knowledge Driven Regression Model in Micro-array Data Analysis, International Journal of Data Mining and Bioinformatics (IJDMB), 2(3): 250-267 2008
9. S. Ji, L. Sun, **R. Jin**, S. Kumar, and J. Ye, Automated Annotation of Drosophila Gene Expression Patterns using a Controlled Vocabulary. Bioinformatics, 24(17):1881-1888, 2008
10. S. Eldawlaty, **R. Jin**, K. Oweiss, Identifying Functional Connectivity in Large Scale Neural Ensemble Recordings: A Multiscale Data Mining Approach, Neural Computation 21(2): 450-477 (2009)
11. **R. Jin** and J. Zhang, Multi-Class Learning by Smoothed Boosting, Journal of Machine Learning, 67(3): 207-227 (21), 2007
12. J. Chai, C. Zhang, and **R. Jin**, An Empirical Investigation of User Term Feedback in Targeted Image Search via Text-based Retrieval, ACM Transactions on Information Systems (TOIS), 25(1), February, 2007.
13. K. Oweiss, **R. Jin**, and Y. Suhail, Identifying Neuronal Assemblies with Local and Global Connectivity with Scale Space Spectral Clustering, Neurocomputing, 70(10-12): 1728-1734, 2006
14. Y. Liu, **R. Jin**, and J. Y. Chai, A Statistical Framework for Query Translation Disambiguation. ACM Transactions on Asian Language Information Processing (TALIP), 5(4): 360-387, 2006
15. **R. Jin**, L. Si, and C. X. Zhai, A Study of Mixture Models for Collaborative Filtering, Information Retrieval 9(3): 357-382, 2006
16. L. Si, **R. Jin**, and S. Hoi, Collaborative Image Retrieval via Regularized Metric Learning,

ACM Multimedia Systems Journal, 12(1): 357-382, June, 2006

17. S. Hoi, M. R. Lyu, and **R. Jin**, A Unified Log-Based Relevance Feedback Scheme for Image Retrieval, IEEE Transactions on Knowledge and Data Engineering (TKDE), 18(4): 509-524, 2006

CONFERENCE
PAPERS

Machine Learning

1. P. Zhao, S. C. H. Hoi, and **R. Jin**, DUOL: A Double Updating Approach for Online Learning, Advances in Neural Information Processing System (NIPS) 23, 2009
2. L. Wu, **R. Jin**, S. C. H. Hoi, J. Zhu, and N. Yu, Learning Bregman Distance Functions and Its Application for Semi-Supervised Clustering, Advances in Neural Information Processing System (NIPS) 23, 2009
3. H. Valizadegan, **R. Jin**, R. Zhang, and J. C. Mao, Learning to Rank by Optimizing NDCG Measure, Advances in Neural Information Processing System (NIPS) 23, 2009
4. **R. Jin**, and S. Wang, Regularized Distance Metric Learning: Theory and Algorithm, Advances in Neural Information Processing System (NIPS) 23, 2009
5. Z. Xu, **R. Jin**, J. Zhu, I. King, M. R. Lyu, and Z. Yang, Adaptive Regularization for Transductive Support Vector Machine, Advances in Neural Information Processing System (NIPS) 23, 2009
6. T. Yang, **R. Jin**, Y. Chi, and S. Zhu, A Bayesian Framework for Community Detection Integrating Content and Link, Proceedings of the 25th Conference on Uncertainty in Artificial Intelligence (UAI 2009), 2009
7. Z. Xu, **R. Jin**, M. R. Lyu, and I. King, Discriminative Semi-supervised Feature Selection via Manifold Regularization, Proceedings of Twenty-First International Joint Conference on Artificial Intelligence (IJCAI-09), 2009.
8. S. Wang, **R. Jin**, An Information Geometry Approach for Distance Metric Learning, Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics (AISTAT 2009), pages 591-598, 2009
9. **R. Jin**, S. Wang, and Z.-H. Zhou, Learning a Distance Metric from Multi-instance Multi-label Data, Proceedings of IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2009), 2009
10. S. S. Bucak, P. K. Mallapragada, **R. Jin**, and A. K. Jain, Efficient Multi-label Ranking for Multi-class Learning: Application to Object Recognition, Proceedings of 12th IEEE International Conference on Computer Vision (ICCV 2009), 2009
11. T. Yang, Y. Chi, S. Zhu, Y. Gong, and **R. Jin**: A Bayesian Approach Toward Finding Communities and Their Evolutions in Dynamic Social Networks. Proceedings of the SIAM International Conference on Data Mining (SDM 2009), pages 990-1001, 2009
12. T. Yang, **R. Jin**, Y. Chi, and S. Zhu, Combining Link and Content for Community Detection: A Discriminative Approach. Proceedings of the 15th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pages 927-936, 2009
13. Z. Xu, **R. Jin**, J. Ye, M. R. Lyu, and I. King, Non-monotonic Feature Selection. Proceedings of the 26th International Conference Machine Learning (ICML 2009), pages 1145-1152, 2009
14. L. Yang, **R. Jin**, and J. Ye, Online Learning by Ellipsoid Method, Proceedings of the 26th International Conference Machine Learning (ICML 2009), pages 145-152, 2009
15. Z. Xu, **R. Jin**, I. King, and M. Lyu, An Extended Level Method for Efficient Multiple Kernel Learning Advance in Neural Information Processing Systems (NIPS) 22, pages 1825-1832, 2008
16. S. Ji, L. Sun, **R. Jin**, and J. Ye, Multi-label Multiple Kernel Learning, Advance in Neural Information Processing Systems (NIPS) 22, pages 777-784, 2008
17. L. Yang, **R. Jin**, and R. Sukthankar, Semi-supervised Learning with Weakly-Related Unlabeled Data : Towards Better Text Categorization, Advance in Neural Information Processing Systems (NIPS) 22, pages 1857-1864, 2008
18. H. Valizadegan, **R. Jin**, and A. K. Jain, Semi-supervised Boosting for Multi-Class Classification, Proceedings of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Database (ECML/PKDD 2008), pages 522-537, 2008
19. S. C. H. Hoi and **R. Jin**, Semi-Supervised Ensemble Ranking, Proceedings of 23rd National

- Conference on Artificial Intelligence (AAAI 2008), pages 634-639, 2008
20. S. C. H. Hoi and **R. Jin**, Active Kernel Learning, Proceedings of the 25th International Conference on Machine Learning (ICML 2008), pages 400-407, 2008
 21. Z. Xu, **R. Jin**, J. Zhu, I. King, and M. R. Lyu, Efficient Convex Relaxation for Transductive Support Vector Machine, Advance in Neural Information Processing Systems (NIPS 21), 2007
 22. P. K. Mallapragada, **R. Jin**, and A. K. Jain, Active Query Selection for Semi-supervised Clustering, Proceedings of the 19th International Conference on Pattern Recognition (ICPR 2008), pages 1-4, 2008
 23. C. Ding, **R. Jin**, T. Li, and H. D. Simon, A Learning Framework using Green's Function and Kernel Regularization with Application to Recommender System, Proceedings of the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2007), pages 260-269, 2007
 24. L. Yang, **R. Jin**, and R. Sukthankar, Bayesian Active Distance Metric Learning, Proceedings of the 23rd Conference on Uncertainty in Artificial Intelligence (UAI 2007), 2007
 25. Y. Liu, **R. Jin**, and A. K. Jain, BoostCluster: Boosting Clustering by Pairwise, Proceedings of the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2007), pages 450-459, 2007
 26. S. Hoi, **R. Jin**, and M. Lyu, Learning Nonparametric Kernel Matrices from Pairwise Constraints, Proceedings of the 2007 International Conference on Machine Learning (ICML 2007), pages 361-368, 2007
 27. H. Cheng, P. N. Tan, and **R. Jin**, Localized Support Vector Machine and Its Efficient Algorithm, Proceedings of the SIAM International Conference on Data Mining (SDM 2007), 2007
 28. W. Tong and **R. Jin**, Semi-supervised Learning by Mixed Label Propagation, Proceedings of the 22nd Conference on Artificial Intelligence (AAAI 07), pages 651-656, 2007
 29. F. Chen and **R. Jin**, Active Algorithm Selection, Proceedings of the 22nd Conference on Artificial Intelligence (AAAI 07), pages 534-539, 2007
 30. L. Yang, **R. Jin**, R. Sukthankar, and Y. Liu, An Efficient Algorithm for Local Distance Metric Learning, Proceedings of the 21st National Conference on Artificial Intelligence (AAAI 06), 2006
 31. Y. Liu, **R. Jin**, and L. Yang, Semi-supervised Multi-label Learning by Constrained Non-negative Matrix Factorization, Proceedings of the 21st National Conference on Artificial Intelligence (AAAI 06), 2006
 32. F. Kang, **R. Jin**, and R. Sukthankar, Correlated Label Propagation with Application to Multi-label Learning, Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2006), pages 1719-1726, 2006
 33. S. Hoi, **R. Jin**, J. Zhu, and M. R. Lyu, Batch Mode Active Learning and Its Application to Medical Image Classification, Proceedings of the 23rd International Conference on Machine Learning (ICML 2006), pages 417-424, 2006
 34. H. Valizadegan and **R. Jin**, Generalized Maximum Margin Clustering and Unsupervised Kernel Learning, Advance in Neural Information Processing Systems (NIPS) 20, pages 1417-1424, 2006
 35. **R. Jin**, C. Ding, and F. Kang, A Probabilistic Approach for Optimizing Spectral Clustering, Advance in Neural Information Processing Systems 19, pages 571-578, 2005
 36. **R. Jin**, H. Liu, and F. Kang, Learning with Labeled Sessions, Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI 2005), pages 740-745, 2005
 37. **R. Jin** and H. Liu, A Novel Approach to Model Generation for Heterogeneous Data Classification, Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI 2005), pages 746-751, 2005
 38. **R. Jin**, J. Y. Chai, and L. Si, Learn to Weight Terms in Information Retrieval Using Category Information, Proceedings of the 22nd International Conference on Machine Learning (ICML 2005), pages 353-360, 2005
 39. **R. Jin** and J. Zhang, A Smoothed Boosting Algorithm Using Probabilistic Output Codes, Proceedings of the 22nd International Conference on Machine Learning (ICML 2005), pages

- 361-368, 2005
40. L. Si and **R. Jin**, Adjusting Mixture Weights of Gaussian Mixture Model via Regularized Probabilistic Latent Semantic Analysis, Proceedings of the 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2005), pages 622-631, 2005
 41. **R. Jin** and Y. Liu, A Framework for Incorporating Class Priors into Discriminative Classification, Proceedings of the 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2005), pages 568-577, 2005
 42. **R. Jin** and H. Liu, Robust Feature Induction for Support Vector Machines, Proceedings of the 21st International Conference on Machine Learning (ICML 2004), pages 57-64, 2004
 43. **R. Jin** and L. Si, A Bayesian Approach toward Active Learning for Collaborative Filtering, Proceedings of the 20th Conference on Uncertainty in Artificial Intelligence (UAI 2004), pages 278-285, 2004
 44. **R. Jin** and H. Liu, SWITCH: A Novel Approach to Ensemble Learning for Heterogeneous Data, Proceedings of the 15th European Conference on Machine Learning (ECML 2004), pages 560-562, 2004
 45. P. N., Tan and **R. Jin**, Ordering Patterns by Combining Opinions from Multiple Sources, Proceeding of the 10th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2004), pages 695-700, 2004
 46. Y. Liu, J. Carbonell, and **R. Jin**, A New Pairwise Ensemble Approach for Text Classification, Proceedings of the 14th European Conference on Machine Learning (ECML 2003), pages 277-288, 2003
 47. **R. Jin**, R., Yan, and J. Zhang, A Faster Iterative Scaling Algorithm For Conditional Exponential Model, Proceedings of the 20th International Conference on Machine Learning (ICML 2003), pages 282-289, 2003.
 48. L. Si and **R. Jin**, Product Space Mixture Model for Collaborative Filtering, Proceedings of the 12th International Conference on Machine Learning (ICML 2003), pages 704-711, 2003
 49. J. Zhang, **R. Jin**, Y. Yang, and A. G. Hauptmann, Modified Logistic Regression: An Approximation to SVM and its Applications in Large-Scale Text Categorization, Proceedings of the 20th International Conference on Machine Learning (ICML 2003), pages 888-895, 2003
 50. **R. Jin**, L. Si, and C. Zhai, Preference-based Graphic Models for Collaborative Filtering, Proceedings of the 19th Conference on Uncertainty in Artificial Intelligence (UAI 2003), pages 329-336, 2003
 51. **R. Jin** and Z. Ghahramani, Learning with Multiple Labels, Proceeding of Advance in Neural Information Processing Systems, pages 897-904, 2002

Computer Vision and Multimedia

1. L. Wu, S. C.H. Hoi, **R. Jin**, J. Zhu, N. Yu, Distance Metric Learning from Uncertain Side Information with Application to Automated Photo Tagging, Proceedings of ACM International Conference on Multimedia (MM2009), 2009
2. J-E. Lee, A. K. Jain, and **R. Jin**, Scars, Marks and Tattoos (SMT): Soft Biometric for Suspect and Victim Identification, Proceedings of Biometric Symposium, BCC, 2008 (Best Paper Award)
3. L. Yang, **R. Jin**, R. Sukthankar, F. Jurie, Unifying Discriminative Visual Codebook Generation with Classifier Training for Object Category Recognition, Proceedings of IEEE Computer Society on Computer Vision and Pattern Recognition (CVPR 2008), 2008
4. J.E. Lee, **R. Jin**, and A.K. Jain, Rank-based Distance Metric Learning: An Application to Image Retrieval, Proceedings of IEEE Computer Society on Computer Vision and Pattern Recognition (CVPR 2008), 2008
5. S. C. H. Hoi, **R. Jin**, J. Zhu, and M. Lyu, Semi-Supervised SVM Batch Mode Active Learning for Image Retrieval, Proceedings of IEEE Computer Society on Computer Vision and Pattern Recognition (CVPR 2008), 2008
6. L. Yang, **R. Jin**, and R. Sukthankar, Discriminative Cluster Refinement: Improving Object Category Recognition Given Limited Training Data, Proceedings of the 2007 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2007), 2007

7. A. K. Jain, J. Lee, and **R. Jin**, Tattoo-ID: Automatic Tattoo Image Retrieval for Suspect and Victim Identification, Proceedings of 8th Pacific Rim Conference on Multimedia (PCM 2007), pages 256-265, 2007 (Best Paper Award)
8. F. Kang and **R. Jin**, Symmetric Statistical Translation Models for Automatic Image Annotation, Proceedings of the 2005 SIAM Conference on Data Mining (SDM 2005), 2005
9. F. Kang, **R. Jin**, and J. Y. Chai, Regularizing Translation Models for Better Automatic Image Annotation, Proceedings of the 13th Conference on Information and Knowledge Management (CIKM 2004), pages 350-359, 2004
10. **R. Jin**, J. Y. Chai, and S. Luo, Automatic Image Annotation via Coherent Language Model and Active Learning, Proceedings of the 12th ACM Annual Conference on Multimedia (ACM MM 2004), pages 892-899, 2004
11. R. Yan, A. G. Hauptmann, and **R. Jin**, Negative Pseudo-relevance Feedback in Content-based Video Retrieval, Proceedings of the 11th ACM Annual Conference on Multimedia (ACM MM 2003), pages 343-346, 2003
12. R. Yan, A. G. Hauptmann, and **R. Jin**, Multimedia Search with Pseudo-Relevance Feedback, Proceedings of International Conference on Image and Video Retrieval (CIVR 2003), pages 238-247, 2003
13. **R. Jin** and A. G. Hauptmann, Using a Probabilistic Source Model for Comparing Images, Proceedings of International Conference on Image Processing (ICIP) (3) 941-944, 2002
14. **R. Jin**, Y. Qi, and A. G. Hauptmann, A Probabilistic Model for Camera Zoom Detection. Proceedings of International Conference on Pattern Recognition (3) 859-862, 2002
15. A. G. Hauptmann, **R. Jin**, and T. D. Ng, Multi-modal Information Retrieval from Broadcast Video using OCR and Speech Recognition, Proceedings of Joint Conference on Digital Library, pages 160-161, 2002

Bioinformatics

1. Y. Zhou, Z. Li, X. Yang, L. Zhang, S. Srivastava, **R. Jin** and C. Chan, Using Knowledge Driven Matrix Factorization to Reconstruct Modular Gene Regulatory Network, Proceedings of 23rd National Conference on Artificial Intelligence (AAAI 2008), pages 811-816, 2008
2. S. Eldawlatly, Y. Zhou, **R. Jin**, and K. Oweiss, Reconstructing Functional Neuronal Circuits Using Dynamic Bayesian Networks, Proceedings of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS 2008), pages 5531-5534, 2008
3. F. Chen, S. El-Dawlatly, **R. Jin** and K. Oweiss, Identifying and Tracking the Number of Independent Clusters of Functionally Interdependent Neurons, Proceedings of the 29th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS 2007), pages 542-545, 2007
4. K. Oweiss, **R. Jin**, Y. Suhail, and F. Chen, Assessing Temporal and Spatial Evolution of Clusters of Functionally Interdependent Neurons using Graph Partitioning Techniques, Proceedings of the 28th IEEE Engineering in Medicine and Biology, pages 1601-1604, 2006
5. K. Oweiss, **R. Jin**, Y. Suhail, and F. Chen, Identifying Neuronal Assemblies with Local and Global Connectivity with Spectral Clustering in Scale Space, Proceedings of Computational Neuroscience (CNS 2006), 2006
6. **R. Jin**, Y. Suhail, and K. Oweiss, A Mixture Model for Spike Train Ensemble Analysis Using Spectral Clustering, Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006), vol. 5, pages 885-888, 2006
7. **R. Jin**, L. Si, S. Srivastava, Z. Li, and C. Chan, A Knowledge Driven Regression Model for Gene Expression and Microarray Analysis, Proceedings of the 28th IEEE Engineering in Medicine and Biology Society (EMBC 2006), 2006
8. C. Wang, L. Xiao, and **R. Jin**, Sensor Localization in an Obstructed Environment, Proceedings of the 1st IEEE/ACM International Conference on Distributed Computing in Sensor Systems (DCOSS 2005), pages 49-62, 2005

Information Retrieval

1. J. Zhuang, S. Hoi, A. Sun, and **R. Jin**, Representative Entry Selection for Profiling Blogs. Proceedings of the 17th ACM Conference on Information and Knowledge Management (CIKM 2008), pages 1387-1388, 2008
2. Z. Xu, **R. Jin**, K. Huang, M. R. Lyu, and I. King, Semi-supervised Text Categorization by Active Search, Proceedings of the 17th ACM Conference on Information and Knowledge Management (CIKM 2008), pages 1517-1518, 2008
3. **R. Jin**, H. Valizadegan, and L. Hang, Ranking Refinement and Its Application to Information Retrieval, Proceedings of 17th International World Wide Web Conference (WWW 2008), pages 397-406, 2008
4. **R. Jin**, M. Wu, and R. Sukthankar, Semi-supervised Collaborative Text Classification, Proceedings of the 18th European Conference on Machine Learning (ECML 2007), pages 600-607, 2007
5. Y. Liu, J. Chai and **R. Jin**, Automated Vocabulary Acquisition and Interpretation in Multimodal Conversational Systems, Proceedings of the Annual Meeting of the Association of Computational Linguistics (ACL 2007), pages 368-375, 2007
6. S. Hoi, **R. Jin**, and M. R. Lyu, Large-scale Text Categorization by Batch Mode Active Learning, Proceedings of the 15th International Conference on World Wide Web (WWW 2006), pages 633-642, 2006
7. M. Wu and **R. Jin**, A Graph-based Framework for Relation Propagation and Its Application to Multi-label Learning, Proceedings of the 29th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2006), pages 717-718, 2006
8. Y. Liu and **R. Jin**, Query Translation Disambiguation As Graph Partitioning, Proceedings of the 20th National Conference on Artificial Intelligence (AAAI 2005), pages 1424-1429, 2005
9. **R. Jin** and J. Y. Chai, Study of Cross Lingual Information Retrieval Using On-line Translation Systems, Proceedings of the 28th Annual International ACM SIGIR Conference (SIGIR 2005), pages 619-620, 2005.
10. C. Zhang, J. Y. Chai, and **R. Jin**, User Term Feedback in Interactive Text-based Image Retrieval, Proceedings of the 28th Annual International ACM SIGIR Conference (SIGIR 2005), pages 51-58, 2005.
11. Y. Liu and **R. Jin**, A Maximum Coherence Model for Dictionary-based Cross-language Information Retrieval, Proceedings of the 28th Annual International ACM SIGIR Conference (SIGIR 2005), pages 536-543, 2005.
12. J. Y. Chai, Z. Prasov, J. Blaim, and Rong Jin, Linguistic Theories in Efficient Multimodal Reference Resolution: an Empirical Investigation, Proceedings of the 10th International Conference on Intelligent User Interfaces (IUI 2005), pages 43-50, 2005
13. **R. Jin** and L. Si, A Study of Methods for Normalizing User Ratings in Collaborative Filtering, Proceedings of the 27th Annual International ACM SIGIR Conference (SIGIR 2004), pages 568-569, 2004
14. **R. Jin**, J. Y. Chai, and L. Si, An Automated Weighting Scheme for Collaborative Filtering, Proceedings of the 27th Annual International ACM SIGIR Conference (SIGIR 2004), pages 337-344, 2004
15. S. Luo and **R. Jin**, Unified Filtering by Combining Collaborative Filtering and Content-Based Filtering via Mixture Model and Exponential Model, Proceedings of the 13th Conference on Information and Knowledge Management (CIKM 2004), pages 156-157, 2004
16. **R. Jin**, L. Si, C.X. Zhai, and J. Callan, Collaborative Filtering with Decoupled Models for Preferences and Ratings, Proceedings of the 20th International Conference on Information and Knowledge Management (CIKM 2003), 309-316, 2003
17. R. Yan, A. Hauptmann, and **R. Jin**, Negative Pseudo-Relevance Feedback in Content-based Video Retrieval, Proceedings of ACM Multimedia (MM 2003), 343-346, 2003
18. W.H. Lin, **R. Jin**, and A. Hauptmann, Web Image Retrieval Re-Ranking with Relevance Model, Proceedings of the 2003 IEEE/WIE International Conference on Web Intelligence (WI 2003), 242-248, 2003
19. **R. Jin**, L. Si, and C.-X. Zhai. Preference-based Graphic Models for Collaborative Filtering, Proceedings of the 19th Conference in Uncertainty in Artificial Intelligence (UAI 2003), 329-

20. L. Si, **R. Jin**, J. Callan, and P. Ogilvie, A Language Modeling Framework for Resource Selection and Results Merging. Proceedings of the 19th International Conference on Information and Knowledge Management (CIKM 2002), 391-397, 2002
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