

Rong Jin

CONTACT INFORMATION

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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

Best Student Paper Award, The 25th Conference of Learning Theory (COLT), 2012

Withrow Distinguished Junior Faculty Award, Michigan State University, 2009

NSF Career Award, 2007

EMPLOYMENT

Principal Engineer, Alibaba Group

2015 - present

Professor, Department of Computer Science & Engineering at MSU

2013 - 2015

Associate Professor, Department of Computer Science & Engineering at MSU

2008 - 2013

Assistant Professor, Department of Computer Science & Engineering at MSU

2003 - 2008

PROFESSIONAL SERVICE

Guest Editor

- Special Issue on Distance Metric Learning in Intelligent Systems, ACM Transactions on Intelligent Systems and Technology (ACM TIST), 2012

Workshop Organizer

- ACM 2nd SIGMM International Workshop on Social Media (WSM2010). Articles accepted by the workshop have been published in the book "Social Media Modeling and Computing" (Springer, 2011)

Associate Editor

- ACM Transactions on Knowledge Discovery from Data (since 2010)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (since 2013)

Area Chair

- Neural Information Processing Systems (NIPS 2013)
- Asian Conference on Machine Learning (ACML 2009, ACML 2012)
- ACM SIGIR Conference on Research and Development on Information Retrieval (SIGIR 2009)

Senior Program Member

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2013)
- National Conference on Artificial Intelligence (AAAI 2012)
- ACM International Conference on Information and Knowledge Management (CIKM 2012)
- International Joint Conference on Artificial Intelligence (IJCAI 2011)

Program committee member: International Joint Conferences on Artificial Intelligence (IJCAI 2009), Neural Information Processing System (NIPS 2012, 2011, 2010, 2009), International Conference on Machine Learning (ICML 2013, 2012, 2011, 2010, 2008, 2007), ACM SIGIR Conference on Research and Development on Information Retrieval (SIGIR 2012, 2011, 2010, 2008, 2007, 2006), ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2012, 2011, 2010, 2008, 2006), International World Wide Web (WWW) Conference (2010, 2008), National Conference on Artificial Intelligence (AAAI 2008, 2005), SIAM International Conference on Data Mining (SDM 2009), ACM International Conference on Information and Knowledge Management (CIKM 2010, 2008, 2007, 2005, 2004), 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)

Reviewer: 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

- Large-scale Metric Learning (\$20,000), Research gift from NEC lab
- Real Time Observation Analysis for Healthcare Applications via Automatic Adaptation to Hardware Limitations (\$300,000), NSF, 2013-2016, PI
- Learning with UIIC Data: Fusion and Completion of Partial Kernel Matrices (\$660,000), ONR, 2012-2015, PI
- Large-scale image retrieval (\$300,000), ARO, 2012-2015, PI
- Large-scale Multi-Label Learning (\$493,212), NSF Career Award, 2007-2012, PI
- Large-scale Optimization with Uncertain Data (\$15,000), Research gift from Yahoo! Research lab, 2010-2011, PI
- Automated Retrieval and Matching of Scars, Marks and Tattoos (SMT) (Phase 2) (\$500,000), FBI, 2010-2011, Co-PI
- Autonomous Electrochemical Gas Detection Microsystem for Mine Safety, NIOSH, 2010-2014 (\$1,892,324), Co-PI
- Large-scale Kernel-based Data Clustering (\$416,295), ONR, 2010-2013, Co-PI
- 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 (\$25,000), Research gift from Yahoo! Research lab, 2009-2010, 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
- 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

PHD STUDENTS

Former PhD Students and Post-Docs

- Zheyun Feng (PhD 2015), Large-scale Image Retrieval, Google Research
- Qi Qian (PhD 2015), Large-scale Distance Metric Learning, Alibaba
- Fengjie Li (PhD 2014), Retrieval Methods for Large-scale High Dimensional Data, Ask.com
- Mehrdad Mahdavi (PhD 2014), Online Learning, Toyota Technological Institute at Chicago
- Jinfeng Yi (PhD 2014), Matrix Completion for Data Clustering, IBM Research
- Lijun Zhang (Postdoc, 2013), Large-scale Optimization and Sparse Recovery, Associate Prof. at Nanjin University
- Tianbao Yan (PhD 2012), Learning from Connected and Noisy Data, Assistant Prof. at the University of Iowa
- Lei Wu (Postdoc, 2011), Large-scale Image Retrieval, GE Global Research Lab
- Wei Tong (PhD, 2010), Dimensionality Reduction for Non-Vector Data Representation, GM Research Lab
- Hamed Valizadegan (PhD, 2010), Boosting and Online Learning for Classification and Ranking, NASA Ames Research Center
- Yang Zhou (PhD, 2010), Learning with Structures, LinkedIn
- Yi Liu (PhD, 2008), Semi-Supervised Learning with Side Information: Graph-based Approaches, Google Research
- Feng Kang (PhD, 2007), Automatic Image Annotation, Yahoo!
- Wu Ming (PhD, 2007), Label Propagation for Classification and Ranking, Microsoft

TUTORIAL

- Big Data Analytics: Optimization and Randomization, 21st SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2015)
- Machine Learning for Information Retrieval, 33th Annual International ACM SIGIR Conference (SIGIR 2011, 2008)
- Machine Learning for IR, ACM 17th Conference on Information and Knowledge Management (CIKM 2008)

PUBLICATION

Referred Journal Papers

1. W. Gao, L. Wang, **R. Jin**, S. H. Zhu, and Z. H. Zhou, One-pass AUC optimization, *Artif. Intell.* 236: 1-29 (2016)
2. Q. Gao, E. Ostendorf, J. A. Cruz, **R. Jin**, D. M. Kramer, and J. Chen, Inter-functional analysis of high-throughput phenotype data by non-parametric clustering and its application to photosynthesis, *Bioinformatics* 32(1): 67-76 (2016)
3. M. Lin, L. Zhang, **R. Jin**, S. Weng, and C. S. Zhang, Online kernel learning with nearly constant support vectors, *Neurocomputing* 179: 26-36 (2016)
4. T. Yang, **R. Jin**, S. H. Zhu, and Q. Lin, On Data Preconditioning for Regularized Loss Minimization. *Machine Learning* 103(1): 57-79 (2016)
5. T. Yang, M. Mahdavi, **R. Jin**, S. H. Zhu, An efficient primal dual prox method for non-smooth optimization. *Machine Learning* 98(3): 369-406 (2015)
6. Q. Qian, **R. Jin**, J. Yi, L. Zhang, and S. H. Zhu, Efficient distance metric learning by adaptive sampling and mini-batch stochastic gradient descent (SGD). *Machine Learning* 99(3): 353-372 (2015)
7. S. Feng, Z. Feng, and **R. Jin**, Learning to Rank Image Tags With Limited Training Examples. *IEEE Trans. Image Processing* 24(4): 1223-1234 (2015)
8. S. J. Huang, **R. Jin**, and Z. H. Zhou, Active Learning by Querying Informative and Representative Examples. *IEEE Trans. Pattern Anal. Mach. Intell.* 36(10): 1936-1949 (2014)
9. L. Zhang, M. Mahdavi, **R. Jin**, T. Yang, S. Zhu, Random Projections for Classification: A Recovery Approach. *IEEE Transactions on Information Theory* 60(11): 7300-7316 (2014)
10. J. Wang, P. Zhao, S. C. H. Hoi, and **R. Jin**, Online Feature Selection and Its Applications. *IEEE Trans. Knowl. Data Eng.* 26(3): 698-710 (2014)
11. X. Hao, P. Zhao, S. C. H. Hoi, and **R. Jin**, Online Multiple Kernel Ranking for Visual

- Similarity Search, *IEEE Trans. Pattern Anal. Mach. Intell.* 36(3): 536-549, 2014
12. S. S. Bucak, **R. Jin**, and A. K. Jain, Multiple Kernel Learning for Visual Object Recognition: A Review, *IEEE Trans. Pattern Anal. Mach. Intell.*
 13. T. Yang, M. Mahdavi, **R. Jin** and S.H. Zhu, Regret Bounded by Variation for Online Convex Optimization, *Machine Learning* 95(2): 183-223, 2014
 14. S. C. H. Hoi, **R. Jin**, P. Zhao, and T. Yang, Online Multiple Kernel Classification, *Machine Learning* 90(2): 289-316, 2013
 15. **R. Jin**, T. Yang, M. Mahdavi, Y.-F. Li, and Z.-H. Zhou, Improved Bounds for the Nystrom Method With Application to Kernel Classification, *IEEE Transactions on Information Theory* 59(10): 6939-6949, 2013
 16. L. Wu, **R. Jin**, and A. K. Jain, Tag Completion for Image Retrieval, *IEEE Trans. Pattern Anal. Mach. Intell.* 35(3): 716-727, 2013
 17. A. Jain, **R. Jin**, and J.-E. Lee, Tattoo Image Matching and Retrieval, *IEEE Computer* 45(5): 93-96, 2012
 18. L. Wu, S. C. H. Hoi, **R. Jin**, J. Zhu, and N. Yu, Learning Bregman Distance Functions for Semi-Supervised Clustering. *IEEE Trans. Knowl. Data Eng.* 24(3): 478-491, 2012
 19. J. E. Lee, **R. Jin**, A. K. Jain, and W. Tong, Image Retrieval in Forensics: Tattoo Image Database Application. *IEEE Multimedia* 19(1): 40-49, 2012
 20. M. Mahdavi, **R. Jin**, and T. Yang, Trading Regret for Efficiency: Online Convex Optimization with Long Term Constraints, *Journal of Machine Learning Research* 13:2503-2528, 2012
 21. T. Yang, Y. Chi, S. Zhu, Y. Gong, and **R. Jin**, Detecting communities and their evolutions in dynamic social networks - a Bayesian approach, *Machine Learning* 82(2): 157-189, 2011
 22. P. Zhao, S. C. H. Hoi, and **R. Jin**, Double Updating Online Learning. *Journal of Machine Learning Research* 12: 1587-1615, 2011
 23. C. Zou, K. Suna, J. D. Mackaluso, A. E. Seddona, **R. Jin**, M. F. Thomashowd, and S. H. Shiu, Cis-regulatory code of stress-responsive transcription in *Arabidopsis thaliana*, *Proceedings of the National Academy of Sciences (PNAS)*, 108(36):14992-14997, 2011
 24. L. Wu, S. C. H. Hoi, **R. Jin**, J. Zhu, and N. Yu, Distance metric learning from uncertain side information for automated photo tagging. *ACM Transactions on Intelligent Systems and Technology (TIST)* 2(2): 13, 2011
 25. S. C. H. Hoi and **R. Jin**, Active multiple kernel learning for interactive 3D object retrieval systems. *ACM Transactions on Interactive Intelligent Systems (TiiS)* 1(1): 3, 2011
 26. H. Cheng, P. N. Tan, and **R. Jin**, Efficient Algorithm for Localized Support Vector Machine. *IEEE Transaction on Knowledge and Data Engineering* 22(4): 537-549, 2010
 27. Z. Xu, I. King, M. Lyu, and **R. Jin**, Semi-supervised Feature Selection based on Manifold Regularization, *IEEE Transaction on Neural Networks*, pages 1033-1047, 2010
 28. 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, *IEEE Transaction on Pattern Analysis and Machine Intelligence (PAMI)* 32(1):30-44, 2010
 29. 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
 30. 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
 31. 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
 32. 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
 33. S. Srivastava, L. Zhang, **R. Jin**, and C, Chan, A Novel Method Incorporating Gene Ontology Information for Unsupervised Clustering and Feature Selection, *PLoS ONE*, 3(12):3860, 2008
 34. **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
35. 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
 36. S. Eldawlatly, **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)
 37. **R. Jin** and J. Zhang, Multi-Class Learning by Smoothed Boosting, *Journal of Machine Learning*, 67(3): 207-227 (21), 2007
 38. 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.
 39. 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
 40. 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
 41. **R. Jin**, L. Si, and C. X. Zhai, A Study of Mixture Models for Collaborative Filtering, *Information Retrieval* 9(3): 357-382, 2006
 42. L. Si, **R. Jin**, and S. Hoi, Collaborative Image Retrieval via Regularized Metric Learning, *ACM Multimedia Systems Journal*, 12(1): 357-382, June, 2006
 43. 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

Referred Conference Papers

1. Z. Li, T. Yang, L. Zhang, and **R. Jin**, Fast and Accurate Refined Nyström-Based Kernel SVM, *AAAI 2016*: 1830-1836
2. L. Zhang, T. Yang, J. Yi, **R. Jin**, Z. H. Zhou, Stochastic Optimization for Kernel PCA, *AAAI 2016*: 2315-2322
3. W. Zhang, L. Zhang, **R. Jin**, D. Cai, and X. He, Accelerated Sparse Linear Regression via Random Projection. *AAAI 2016*: 2337-2343
4. L. Zhang, T. Yang, **R. Jin**, Z. H. Zhou, Sparse Learning for Large-Scale and High-Dimensional Data: A Randomized Convex-Concave Optimization Approach. *ALT 2016*: 83-97
5. F. Ahmed, A. X. Liu, and **R. Jin**, Social Graph Publishing with Privacy Guarantees. *ICDCS 2016*: 447-456
6. L. Zhang, T. Yang, **R. Jin**, Y. C. Xiao, and Z. H. Zhou, Online Stochastic Linear Optimization under One-bit Feedback. *ICML 2016*: 392-401
7. T. Yang, L. Zhang, **R. Jin**, and J. Yi, Tracking Slowly Moving Clairvoyant: Optimal Dynamic Regret of Online Learning with True and Noisy Gradient. *ICML 2016*: 449-457
8. Z. Xu, **R. Jin**, B. Shen, and S. H. Zhu, Nystrom Approximation for Sparse Kernel Methods: Theoretical Analysis and Empirical Evaluation. *AAAI 2015*: 3115-3121
9. L. Zhang, T. Yang, **R. Jin**, Z. H. Zhou, Online Bandit Learning for a Special Class of Non-Convex Losses. *AAAI 2015*: 3158-3164
10. L. Zhang, T. Yang, **R. Jin**, Z. H. Zhou, A Simple Homotopy Algorithm for Compressive Sensing. *AISTATS 2015*
11. R. Chitta, A. K. Jain, and **R. Jin**, Sparse Kernel Clustering of Massive High-Dimensional Data sets with Large Number of Clusters. *CIKM 2015*: 11-18
12. X. J. Pu, **R. Jin**, G. Wu, D. Y. Han, and G. R. Xue, Topic Modeling in Semantic Space with Keywords. *CIKM 2015*: 1141-1150
13. M. Mahdavi, L. Zhang, **R. Jin**, Lower and Upper Bounds on the Generalization of Stochastic Exponentially Concave Optimization. *COLT 2015*: 1305-1320
14. Q. Qian, **R. Jin**, S. H. Zhu, and Y. Q. Lin, Fine-grained visual categorization via multi-stage metric learning. *CVPR 2015*: 3716-3724

15. J. Hu, Q. Qian, J. Pei, **R. Jin**, S. H. Zhu, Finding Multiple Stable Clusterings. ICDM 2015: 171-180
16. R. Chitta, **R. Jin**, and A. K. Jain, Stream Clustering: Efficient Kernel-Based Approximation Using Importance Sampling. ICDM Workshops 2015: 607-614
17. T. Yang, L. Zhang, **R. Jin**, S. H. Zhu, An Explicit Sampling Dependent Spectral Error Bound for Column Subset Selection. ICML 2015: 135-143
18. T. Yang, L. Zhang, **R. Jin**, S. H. Zhu, Theory of Dual-sparse Regularized Randomized Reduction. ICML 2015: 305-314
19. M. Xu, **R. Jin**, and Z. H. Zhou, CUR Algorithm for Partially Observed Matrices. ICML 2015: 1412-1421
20. W. Zhong, **R. Jin**, C. Yang, X. W. Yan, Q. Zhang, and Q. Li, Stock Constrained Recommendation in Tmall. KDD 2015: 2287-2296
21. W. Zhang, L. Zhang, Y. Hu, **R. Jin**, D. Cai, and X. He, Sparse Learning for Stochastic Composite Optimization. AAAI 2014: 893-900. 2014
22. J. Yi, J. Wang, and **R. Jin**, Privacy and Regression Model Preserved Learning. AAAI 2014: 1341-1347, 2014
23. Z. Feng, S. Feng, **R. Jin**, and A. K. Jain, Image Tag Completion by Noisy Matrix Recovery. ECCV 2014: 424-438, 2014
24. J. Yi, L. Zhang, J. Wang, **R. Jin**, and A. K. Jain: A Single-Pass Algorithm for Efficiently Recovering Sparse Cluster Centers of High-dimensional Data. ICML 2014: 658-666, 2014
25. L. Zhang, J. Yi, and **R. Jin**, Efficient Algorithms for Robust One-bit Compressive Sensing. ICML 2014, 820-828, 2014
26. Q. Qi, J. Hu, **R. Jin**, J. Pei, and S. Zhu, Distance metric learning using dropout: a structured regularization approach. KDD 2014: 323-332, 2014
27. T. Yang and **R. Jin**, Extracting Certainty from Uncertainty: Transductive Pairwise Classification from Pairwise Similarities, NIPS 2014: 262-270, 2014
28. N. Li, **R. Jin**, and Z. H. Zhou, Top Rank Optimization in Linear Time. NIPS 2014: 1502-1510, 2014
29. J. Yi, **R. Jin**, S. Jain, and A. K. Jain, Inferring Users Preferences from Crowdsourced Pairwise Comparisons: A Matrix Completion Approach, Proceedings of Conference on Human Computation & Crowdsourcing (HCOMP), 2013
30. L. Zhang, M. Mahdavi, and **R. Jin**, Linear Convergence with Condition Number Independent Access of Full Gradients, Advance in Neural Information Processing Systems(NIPS), 2013
31. M. Mahdavi, L. Zhang, and **R. Jin**, Mixed Optimization for Smooth Functions, Advance in Neural Information Processing Systems (NIPS), 2013
32. M. Xu, **R. Jin**, and Z.-H. Zhou, Speedup Matrix Completion with Side Information: Application to Multi-Label Learning, Advance in Neural Information Processing Systems (NIPS), 2013
33. M. Mahdavi, T. Yang, and **R. Jin**, Stochastic Convex Optimization with Multiple Objectives, Advance in Neural Information Processing Systems(NIPS), 2013
34. L. Zhang, J. Yi, **R. Jin**, M. Lin, and X. He, Online Kernel Learning with a Near Optimal Sparsity Bound, Proceedings of the 30th International Conference on Machine Learning (ICML), 2013
35. W. Gao, **R. Jin**, S.H. Zhu, and Z.-H. Zhou, One-Pass AUC Optimization, Proceedings of the 30th International Conference on Machine Learning (ICML), 2013
36. L. Zhang, T. Yang, **R. Jin**, and X. He, $O(\log T)$ Projections for Stochastic Optimization of Smooth and Strongly Convex Functions, Proceedings of the 30th International Conference on Machine Learning (ICML), 2013
37. J. Yi, L. Zhang, **R. Jin**, Q. Qian, and A. Jain, Semi-supervised Clustering by Input Pattern Assisted Pairwise Similarity Matrix Completion, Proceedings of the 30th International Conference on Machine Learning (ICML), 2013
38. L. Zhang, M. Mahdavi, **R. Jin**, T. Yang and S.H. Zhu, Recovering Optimal Solution by Dual Random Projection, Proceedings of the 26th Conference on Learning Theory (COLT), 2013
39. M. Mahdavi and **R. Jin**, Passive Learning with Target Risk, Proceedings of the 26th Confer-

- ence on Learning Theory (COLT), 2013
40. Y. Lin, **R. Jin**, D. Cai, S. Yan, and X. Li, Compressed Hashing, Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2013
 41. Z. Feng, **R. Jin**, and A. Jain, Large-scale Image Annotation by Efficient and Robust Kernel Metric Learning, Proceedings of International Conference on Computer Vision (ICCV), 2013
 42. J. Yi, T. Yang, **R. Jin**, A. K. Jain, and M. Mahdavi, Robust Ensemble Clustering by Matrix Completion, Proceedings of the 12th International Conference on Data Mining (ICDM), 2012
 43. R. Chitta, **R. Jin** and A. K. Jain, Efficient Kernel Clustering Using Random Fourier Features, Proceedings of the 12th IEEE International Conference on Data Mining (ICDM), 2012
 44. J. Yi, **R. Jin**, A. K. Jain, and S. Jain, Crowdclustering with Sparse Pairwise Labels: A Matrix Completion Approach, Proceedings of the 4th Human Computation Workshop in junction with AAAI 2012, 2012
 45. S. H. C. Hoi, **R. Jin**, H. Xia, and P.C. Wu, Boosting Multi-Kernel Locality-Sensitive Hashing for Scalable Image Retrieval, Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2012), 2012
 46. M. Mahdavi, T. Yang, **R. Jin**, S. Zhu, Stochastic Gradient Descent with Only One Projection, Advance in Neural Information Processing Systems (NIPS), 2012
 47. J. Yi, **R. Jin**, A. Jain, and S. Jain, Semi-Crowdsourced Clustering: Generalizing Crowd Labeling by Robust Distance Metric Learning, Advance in Neural Information Processing Systems (NIPS), 2012
 48. T. Yang, Y. Li, M. Mahdavi, **R. Jin**, and Z. Zhou, Nystrom Method vs Random Fourier Features: A Theoretical and Empirical Comparison, Advance in Neural Information Processing Systems (NIPS), 2012
 49. T. Yang, M. Mahdavi, **R. Jin**, and S. Zhu, Online Optimization with Gradual Variations, Proceedings of the 25th Conference on Learning Theory (COLT 2012), 2012
 50. Y. Lin, **R. Jin**, D. Cai, and X. He, Random Projection with Filtering for Nearly Duplicate Search, Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI-12), 2012
 51. T. Yang, **R. Jin**, and M. Mahdavi, Online Kernel Selection: Algorithms and Evaluations, Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI-12), 2012
 52. L. Zhang, **R. Jin**, J. Bu, C. Chen, and X. He, Efficient Online Learning for Large-scale Sparse Kernel Logistic Regression, Proceedings of the Twenty-Sixth AAAI Conference on Artificial Intelligence (AAAI-12), 2012
 53. S. C. H. Hoi and **R. Jin**, Fast Bounded Online Gradient Descent Algorithms for Scalable Kernel-Based Online Learning, Proceedings of the 29th International Conference on Machine Learning (ICML2012), 2012
 54. T. Yang, M. Ji, and **R. Jin**, A Simple Algorithm for Semi-supervised Learning with Improved Generalization Error Bound, Proceedings of the 29th International Conference on Machine Learning (ICML2012), 2012
 55. T. Yang and **R. Jin**, Multiple Kernel Learning from Noisy Labels by Stochastic Programming, Proceedings of the 29th International Conference on Machine Learning (ICML2012), 2012
 56. W. Tong, F. Li, T. Yang, **R. Jin**, A. K. Jain, A kernel density based approach for large scale image retrieval. Proceedings of the 1st International Conference on Multimedia Retrieval (ICMR) 2011, 2011
 57. S. Bhattacharya, R. Sukthankar, **R. Jin**, and M. Shah, A probabilistic representation for efficient large scale visual recognition tasks, Proceedings of the 24th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2011), 2011
 58. S. S. Bucak, **R. Jin** and A. K. Jain, Multi-label Learning with Incomplete Class Assignments, Proceedings of the 24th IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2011), 2011
 59. P. Zhao, S. C.H. Hoi, **R. Jin**, and T. Yang, Online AUC Maximization, Proceedings of the 28th International Conference on Machine Learning (ICML2011), 2011
 60. W. Wu, H. Li, Y. Hu, and **R. Jin**, Multi-Task Learning in Square Integrable Space, Proceedings of the Twenty-Fifth AAAI Conference on Artificial Intelligence (AAAI) 2011, 2011

61. R. Chitta, **R. Jin**, T. C. Havens, A. K. Jain, Approximate kernel k-means: solution to large scale kernel clustering. Proceedings of the 17th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2011), 2011
62. H. Valizadegan, **R. Jin**, S. Wang, Learning to trade off between exploration and exploitation in multiclass bandit prediction, Proceedings of the 17th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2011), 2011
63. S. Huang, **R. Jin**, and Z. H. Zhou, Active Learning by Querying Informative and Representative Examples, Advance in Neural Information Processing Systems (NIPS), 2010
64. S. Bucak, **R. Jin**, and A. Jain, Multi-label Multiple Kernel Learning by Stochastic Approximation: Application to Visual Object Recognition, Advance in Neural Information Processing Systems (NIPS), 2010
65. T. Yang, Y. Chi, S. Zhu, Y. Gong, and **R. Jin**, Directed Network Community Detection: A Popularity and Productivity Link Model, Proceedings of the SIAM International Conference on Data Mining, pages 742-753, 2010
66. K. Huang, **R. Jin**, Z. Xu, and C. Liu, Robust Metric Learning with Smooth Optimization, Proceedings of the 26th Conference on Uncertainty in Artificial Intelligence (UAI), 2010.
67. Z. Xu, **R. Jin**, S. Zhu, M. Lyu, and I. King, Smooth Optimization for Effective Multiple Kernel Learning, Proceedings of the 24th Conference on Artificial Intelligence (AAAI), 2010
68. W. Li, X. Wang, R. Zhang, Y. Cui, **R. Jin**, and J.C. Mao, Exploitation and Exploration in a Performance based Contextual Advertising System, Proceedings of the 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2010
69. T. Yang, **R. Jin**, and A. K. Jain, Unsupervised Transfer Learning: Application to Text Categorization, Proceedings of the 16th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2010
70. P. K. Mallapragada, **R. Jin**, A. K. Jain, Online Visual Vocabulary Pruning Using Pairwise Constraints, Proceedings of the 23rd IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2010
71. Z. Xu, **R. Jin**, H. Yang, I. King, and M. Lyu, Simple and Efficient Multiple Kernel Learning By Group Lasso, Proceedings of the 27th International Conference on Machine Learning (ICML), 2010
72. T. Yang, **R. Jin**, and A. Jain, Learning from Noisy Side Information by Generalized Maximum Entropy Model, Proceedings of the 27th International Conference on Machine Learning (ICML), 2010
73. **R. Jin**, S. C. H. Hoi, and T. Yang, Online Multiple Kernel Learning: Algorithms and Mistake Bounds, Proceedings of the 21st International Conference on Algorithmic Learning Theory (ALT2010), 390-404, 2010
74. Y. Zhou, **R. Jin**, and S. C. H. Hoi, Exclusive Lasso for Multi-task Feature Selection, Proceeding of the 14th International Conference on Artificial Intelligence and Statistics (AISTAT), 2010
75. 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 the 12th IEEE International Conference on Computer Vision (ICCV 2009), 2009
76. **R. Jin**, S. Wang, and Z.-H. Zhou, Learning a Distance Metric from Multi-instance Multi-label Data Proceedings of the 2009 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2009), 2009
77. 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
78. 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
79. 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
80. 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

81. **R. Jin**, and S. Wang, Regularized Distance Metric Learning: Theory and Algorithm, Advances in Neural Information Processing System (NIPS) 23, 2009
82. 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
83. 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
84. 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.
85. 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
86. 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
87. 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
88. 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
89. 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
90. 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)
91. 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
92. 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
93. 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
94. 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
95. 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
96. 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
97. 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
98. 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
99. 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
100. 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
101. 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
102. 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
 103. 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
 104. 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
 105. **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
 106. 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
 107. 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)
 108. 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
 109. 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
 110. 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
 111. 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
 112. 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
 113. 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
 114. 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
 115. F. Chen and **R. Jin**, Active Algorithm Selection, Proceedings of the 22nd Conference on Artificial Intelligence (AAAI 07), pages 534-539, 2007
 116. 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
 117. **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
 118. 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
 119. 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

120. 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
121. 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
122. 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
123. 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
124. 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
125. 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
126. **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
127. **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
128. 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
129. 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
130. 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
131. **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
132. **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
133. **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
134. **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
135. **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
136. 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
137. **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
138. 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
139. 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
 140. **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.
 141. 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.
 142. 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.
 143. 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
 144. 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
 145. **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
 146. **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
 147. **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
 148. **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
 149. 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
 150. **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
 151. **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
 152. 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
 153. 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
 154. 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
 155. **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
 156. 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
 157. **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.
158. L. Si and **R. Jin**, PFlexible Mixture Model for Collaborative Filtering., Proceedings of the 12th International Conference on Machine Learning (ICML 2003), pages 704-711, 2003
 159. 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
 160. **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
 161. **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
 162. 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
 163. 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
 164. **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), 329-336, 2003
 165. **R. Jin** and Z. Ghahramani, Learning with Multiple Labels, Proceeding of Advance in Neural Information Processing Systems, pages 897-904, 2002
 166. **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
 167. 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
 168. 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
 169. **R. Jin** and A. G. Hauptmann, A New Probabilistic Model for Title Generation, Proceedings of 19th International Conference on Computational Linguistics (COLING 2002), 2002
 170. **R. Jin**, L. Si, A. G. Hauptmann, and J. P. Callan, Language Model for IR using Collection Information, Proceedings of the 25th Annual International ACM SIGIR Conference (SIGIR 2002), pages 419-420, 2002
 171. **R. Jin**, A. G. Hauptmann, and C. X. Zhai, Title Language Model for Information Retrieval, Proceedings of the 25th Annual International ACM SIGIR Conference (SIGIR 2002), pages 42-48, 2002
 172. A. G. Hauptmann, R. Yan, Y. Qi, **R. Jin**, M. G. Christel, M. Derthick, M. Chen, R. V. Baron, W. Lin, and T. D. Ng, Video Classification and Retrieval with the Infromedia Digital Video Library System. Proceedings of Text Retrieval Conference (TREC), 2002
 173. **R. Jin** and A. G. Hauptmann, Learning to Select Good Title Words: An New Approach based on Reverse Information Retrieval, Proceedings of the 18th International Conference on Machine Learning (ICML 2001), pages 242-249, 2001
 174. **R. Jin**, and A. G. Hauptmann, Title Generation for Machine-Translated Documents, Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI 2001), pages 1229-1234, 2001
 175. S. T. Dumais and **R. Jin**, Probabilistic Combination of Content and Links, Proceedings of the 24th Annual International ACM SIGIR Conference (SIGIR 2001), pages 402-403, 2001
 176. **R. Jin**, C. Falusos, and A. G. Hauptmann, Meta-scoring: Automatically Evaluating Term Weighting Schemes in IR without Precision-Recall, Proceedings of the 24th Annual International ACM SIGIR Conference (SIGIR 2001), pages 83-89, 2001