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Assistant Professor

College of Information Science and Technology

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EDUCATION

- Doctor of Philosophy** in Management August 2007
Major: Management Information Systems
Eller College of Management, University of Arizona, Tucson, AZ
Minor: Information Resources and Library Science
Dissertation: Feature Construction, Selection and Consolidation for Knowledge Discovery
- Master of Science** (Management) July 2002
School of Economics and Management, Tsinghua University, Beijing, China
- Bachelor of Engineering** (Management Information Systems) July 2000
School of Economics and Management, Tsinghua University, Beijing, China

PROFESSIONAL EXPERIENCE

- Assistant Professor** 2007~present
College of Information Science and Technology, Drexel University, Philadelphia, PA
- Research Associate** 2002~2007
Artificial Intelligence Lab, Department of Management Information Systems,
Eller College of Management, University of Arizona, Tucson, AZ
- Graduate Research Assistant** 2000~2002
Department of Management Science and Engineering, School of Economics and Management,
Tsinghua University, Beijing, P.R.China
- Webmaster and System Administrator** 1999~2001
China Business Administration Case Services Center, Tsinghua University, Beijing, China

RESEARCH INTERESTS

- Data Mining and Machine Learning
- Text Mining and Web Mining
- Business Process Mining
- Knowledge Management

JOURNAL PUBLICATIONS

- Zhang, C., Zeng, D., Li, J., Wang, F., & Zuo, W., Sentiment Analysis of Chinese Documents: From Sentence to Document Level, *Journal of the American Society for Information Science and Technology*, (forthcoming).

- Li, X., Chen, H., Li, J., & Zhang, Z., Gene function prediction with gene interaction networks: a context graph kernel approach, *IEEE Transactions on Information Technology in Biomedicine*, (forthcoming).
- Li, X., Chen, H., Zhang, Z., Li, J., & Nunamaker, J. F. (2009). Managing knowledge in light of its evolution process: An empirical study on citation network-based patent classification, *Journal of Management Information Systems*, 26(1), 129-153.
- Li, J., Wang, H. J., Zhang, Z., & Zhao, J. L., A policy-based process mining framework: Mining business policy texts for discovering process models, *Information Systems and e-Business Management*, (published online: April 11, 2009).
- Li, J., Zhang, Z., Li, X., & Chen, H. (2008). Kernel-based learning for biomedical relation extraction. *Journal of the American Society for Information Science and Technology*, 59(5), 756-769.
- Xu, J., Wang, A. G., Li, J., & Chau, M. (2007, October). Complex problem solving: A case study on identity matching based on social contextual information. *Journal of the Association for Information Systems: Special Issue Enid Mumford's Contribution to Information Systems Theory and Theoretical Thinking*, 8(10), Article 31.
- Li, J., Su, H., Chen, H., & Futscher, B. W. (2007). Optimal search-based gene subset selection for gene array cancer classification. *IEEE Transactions on Information Technology in Biomedicine*, 11(4), 398-405.
- Huang, Z., Li, J., Su, H., Watts, G. S., & Chen, H. (2007). Large-scale regulatory network analysis from microarray data: Modified Bayesian network learning and association rule mining, *Decision Support Systems*, 43, 1207-1225.
- Li, J., Li, X., Su, H., Chen, H., & Galbraith, D.W. (2006). A framework of integrating gene functional relations from heterogeneous data sources: An experiment on *Arabidopsis thaliana*. *Bioinformatics*, 22(16), 2037-2043.
- Li, J., Zheng, R., & Chen, H., (2006). From fingerprint to writeprint. *Communications of the ACM*, 49(4), 76-82.
- Zheng, R., Li, J., Chen, H., Huang, Z., & Qin, Y. (2006). A framework of authorship identification for online messages: Writing style features and classification techniques," *Journal of the American Society for Information Science and Technology*, 57(3), 378-393.

CONFERENCE PROCEEDINGS

- Zhang, J., Chen, C., & Li, J. (2009). Visualizing the Intellectual Structure with Paper-Reference Matrices, IEEE Information Visualization Conference (IEEE InfoVis), *October 11- 16*, Atlantic City, New Jersey, USA (forthcoming).
- Li, J., Wang, H. J., Zhang, Z., & Zhao, J. L. (2008). Relation-centric task identification for policy-based process mining. *Proceedings of the International Conference on Information Systems (ICIS 2008)*, December 14-17, Paris, France.
- Li, J., MacDonald, C. M., & Zheng, R. (2008). Stylometric feature selection for assessing review helpfulness. *The Eighteenth Annual Workshop on Information Technologies and Systems (WITS 2008)*, December 13-14, Paris, France.
- Lin, X., Li, J., & Zhou, X. (2008). Theme creation for digital collections. *Proceedings of the International Dublin Core and Metadata Applications (DC 2008)*, 34-42, September 22-26, Berlin, German.
- Li, J., Wang, H. J., Zhang, Z., & Zhao, J. L. (2008). Process component identification from business policy documents. *Proceedings of the Second China Summer Workshop on Information Management (CSWIM 2008)*, June 29-30, Kunming, Yunnan, China (**Best Paper Award**).

- Li, J., Wang, G. A., & Chen, H. (2008). A PRM-based identity matching using social context. *Proceedings of the IEEE International Conference on Intelligence and Security Informatics (ISI 2008)*, June 17-20, Taipei, Taiwan.
- Li, J., Wang, H. J., Zhang, Z., & Zhao, J. L. (2007). Mining business policy texts for discovering process models: A framework and some initial results. *Proceedings of the Sixth Workshop on e-Business (WeB 2007)*, December 9, Montreal, Quebec, Canada (**Best Paper Award Nominee**).
- Li, X., Zhang, Z., Chen, H., & Li, J. (2007) Graph kernel-based learning for gene function prediction from gene interaction network. *Proceedings of IEEE International Conference on Bioinformatics and Biomedicine (IEEE-BIBM)*, November 2-4, Fremont, California.
- Li, X., Chen, H., Zhang, Z., & Li, J. (2007). Auto patent classification using citation network information: An experimental study in nanotechnology. *Proceedings of ACM/IEEE Joint Conference on Digital Libraries (JCDL 2007)*, June 18-23, Vancouver, British Columbia, Canada.
- Li, J., Wang, G., & Chen, H. (2006). Identity matching based on probabilistic relational models. *Proceedings of the Twelfth Americas Conference on Information Systems (AMCIS'06)*, August 4-6, Acapulco, México.
- Li, J., Su, H., & Chen, H. (2005). Optimal search-based gene selection for cancer diagnosis. *Proceedings of the Eleventh Annual Americas Conference on Information Systems (AMCIS'05)*, August 11-14, Omaha, Nebraska.
- Leroy, G., Chen, H., Martinez, J., Eggers, S., Falsey, R., Kislin, K., Huang, Z., Li, J., Xu, J., McDonald, D., & Ng, G. (2003). Genescene: Biomedical text and data mining. *Proceedings of the Third ACM/IEEE Joint Conference on Digital Libraries (JCDL 2003)*, May 27-31, Houston, Texas.
- Chen, G., Li, J., Yan, P., & Kerre, E. E. (2002). Discovering association rules with degrees of support and implication (ARsi). *Computational Intelligent Systems for Applied Research, Proceedings of the Fifth International FLINS Conference*, September 16-18, Gent, Belgium.
- Li, J., & Chen, G. (2002). A SAR-based interesting rule mining algorithm. *Proceedings of the Joint Conference of the North American Fuzzy Information Processing Society and the Special Interest Group on Fuzzy Logic and the Internet (NAFIPS-FLINT 2002)*, June 27-29, New Orleans, Louisiana, USA.
- Chen, G., Liu, D., & Li, J. (2001). Influence and conditional influence -- New interestingness measures in association rule mining. *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2001)*, December 2-5, Melbourne, Australia.

INVITED TALKS AND CONFERENCE PRESENTATIONS

- Li, J., & Chen, H. (2006, October 19). Data mining in medical informatics. *College of Pharmacy, University of Arizona*.
- Li, J., Su, H., & Chen, H. (2006, September 27). Identification of marker genes for microarray-based cancer classification. *Department of Obstetrics & Gynecology, University of Arizona*.
- Li, J., Li, X., Su, H., & Chen, H., (2006, May 18). A Bayesian framework of integrating gene functional relations from heterogeneous data sources. *2006 American Medical Informatics Association (AMIA) Spring Congress*, Phoenix, Arizona.
- Li, J., Su, H., Chen, H., & Futscher, B. W. (2006, May 17). Optimal search-based gene subset selection for microarray cancer classification. *2006 American Medical Informatics Association (AMIA) Spring Congress*, Phoenix, Arizona.
- Li, J., Su, H., & Chen, H. (2005, December 19). Feature selection for microarray-based cancer classification, *Department of Management Science and Engineering, School of Economics and Management, Tsinghua University*, Beijing, China.

- Zheng, R., Li, J., & Chen, H. (2003, June 3). Authorship analysis of online messages for cybercrime investigation. *NSF/NIJ Symposium on Intelligence and Security Informatics (ISI'03)*, Tucson, Arizona.

BOOK CHAPTERS

- Li, J., Su, H., & Chen, H. (2007). Identification of marker genes from high-dimensional microarray data for cancer classification. In Y. Pan and X. Hu (Eds.), *Knowledge Discovery in Bioinformatics: Techniques, Methods and Applications* (pp. 71-88). Wiley Series on *Bioinformatics: Computational Techniques and Engineering*. New Jersey: John Wiley & Sons.

RESEARCH PROJECTS

1 R33 LM07299-01 Chen (PI) 05/01/2002 – 04/30/2005
 NIH/NLM
 Genescene: A Toolkit for Gene Pathway Analysis
 The goal of this study was to develop a toolkit for visualizing gene pathways extracted from various biomedical sources using data/text mining techniques.
 Role: Research Associate

9983304 Chen (PI) 07/01/2000 – 09/30/2006
 NSF/Digital Government (GD) Program
 COPLINK Center: Information and Knowledge Management for Law Enforcement
 The goal of this study was to develop tools to support cross-jurisdictional information sharing, analysis, visualization and research for the law enforcement and intelligence community.
 Role: Research Associate

#0429364 Chen & Atabakhsh (PI) 10/01/2004 – 09/30/2007
 NSF/Digital Government (GD) Program
 COPLINK Center: Social Network Analysis and Identity Deception Detection for Law Enforcement and Homeland Security
 The goal of this study is to develop algorithms that support analyzing criminal social networks and detecting false identities to assist police and intelligence investigations.
 Role: Research Associate

TEACHING INTERESTS

- Database Management
- Data Mining and Text Mining
- Data Structure and Algorithms
- Research Statistics and Quantitative Methods

TEACHING EXPERIENCE

College of Information Science and Technology, Drexel University
Assistant Professor
 INFO 210, Database Management Systems (Undergraduate)
 INFO 605, Database Management I (Graduate)
 INFO 606, Database Management I (Graduate)
 INFO 813, Quantitative Methods (Doctoral)

Department of MIS, Eller College of Management, University of Arizona

Instructor

- Summer 2006, MIS 373, Basic Operations Management (Undergraduate Course)
- Summer 2005, MIS 304, Using and Managing Information Systems (Undergraduate Course)

School of Economics and Management, Tsinghua University

Teaching Assistant

- Fall 2001, Data, Models and Decisions (MBA Course)
- Fall 2001, Data Structure (Undergraduate Course)

SPECIAL AWARDS AND HONORS

- **Graduate Research Assistantship**, National Science Foundation (2002 ~ 2007)
- **Graduate In-state Tuition Scholarship**, University of Arizona (2004 ~ 2007)
- **Graduate Assistantship**, University of Arizona (2002 ~ 2007)
- **Graduate Tuition Waiver**, University of Arizona (2002 ~ 2007)
- **Tsinghua University Scholarship**, Tsinghua University (1996 ~ 2002)

ACADEMIC ACTIVITIES

- **Member of the Association for Computing Machinery since 2007**
- **Member of the Association for Information Systems since 2005**
- **Conference Chair**
 - Proceedings Chair, The 18th ACM Conference on Information and Knowledge Management (CIKM), 2009 (Hong Kong, China)
 - Proceedings Chair, The 4th International Conference on Design Science Research in Information Systems and Technology (DESRIST), 2009 (Malvern, PA, USA)
 - Session Chair, China Summer Workshop on Information Management (CSWIM), 2008 (Kunming, Yunnan, China)
 - Session Chair, IEEE Bioinformatics and Biomedicine (BIBM), 2007 (Silicon Valley, CA)
- **Member of Program Committee**
 - Conference on Information and Knowledge Management (CIKM), 2009 (Hong Kong, China)
 - International Conference on Design Science Research in Information Systems and Technology (DESRIST), 2009 (Malvern, PA, USA)
 - China Summer Workshop on Information Management (CSWIM), 2008 (Kunming, Yunnan, China)
 - IEEE Bioinformatics and Biomedicine (BIBM), 2007 (Silicon Valley, CA)
- **Reviewer of Journals**
 - Journal of the American Society for Information Science and Technology
 - IEEE Transactions on Systems, Man and Cybernetics
 - IEEE Transactions on Intelligent Transportation Systems
 - IEEE Intelligent Systems
 - Decision Support Systems
 - International Journal of Business Intelligence and Data Mining
 - Journal of E-Commerce Research
- **Reviewer of Conferences**
 - Hawaii International Conference on System Sciences (HICSS)
 - ACM/IEEE Joint Conference on Digital Libraries (JCDL)
 - IEEE Intelligence and Security Informatics Conference (ISI)
 - Workshop on Information Technology and Systems (WITS)
 - Workshop on e-Business (WeB)

- IEEE Bioinformatics and Biomedicine (BIBM)
- China Summer Workshop on Information Management (CSWIM)
- Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)
- Workshop on the Sciences of the Artificial (WSA)
- ACM Symposium on Applied Computing (SAC)
- DELOS Network of Excellence on Digital Libraries (NEDL)

Updated September, 2009