



MANAGEMENT INFORMATION SYSTEM
THE UNIVERSITY OF IOWA

Lian Duan

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EDUCATION:

- 08/2007-----present Department of Management Sciences, the University of Iowa, USA
Ph.D. Candidate
- 09/2002-----07/2007 Computer Network Information Center, Chinese Academy of Sciences, China
Ph.D. of Computer Science
- 09/1998-----07/2002 Department of Management Information System, Zhongnan University of
Economics and Law, China
Bachelor of Engineering

RESEARCH INTERESTS:

Correlation Analysis, Community Detection, Heuristic Search, Data and Process Simulation, Outlier Detection and Clustering

PROFESSIONAL EXPERIENCE:

- 09/2008-----present Management Sciences Department, the University of Iowa
Teaching Assistant Instructor: 06K:070 Computer Analysis
- 01/2008-----07/2009 College of Nursing, the University of Iowa
Research Assistant Project: Mining Clinical Data Sets for Nursing Diagnoses, Outcomes and
Intervention Links and EBP Validation
- 09/2007-----12/2007 Management Sciences Department, the University of Iowa
Teaching Assistant Grader: 06K:275 Knowledge Discovery

11/2004-----07/2007 Research Assistant	CSTNET, CNIC, Chinese Academy of Sciences Project: Anomaly Detection System for Backbone Networks
06/2004-----05/2005 Software Engineer	Beijing Sanfront Information Technology Co.Ltd Project: Domain Name Registration and Management System
09/2003-----06/2004 Research Assistant	CSTNET, CNIC, Chinese Academy of Sciences Project: Quality of Service for IP Videoconference
09/2003-----07/2007 Research Assistant	CSTNET, CNIC, Chinese Academy of Sciences Project: Network Measurement and Management

PUBLICATIONS:

1. Lian Duan, Mohammad Khoshneshin, and W. Nick Street. "Adverse Drug Effect Detection". In Preparation.
2. Lian Duan, and W. Nick Street. "Selecting the Right Correlation Measure for Binary Data". Submitted to Data Mining and Knowledge Discovery.
3. Lian Duan, and W. Nick Street. "Speeding up Correlation Search for Binary Data". Under the 2nd Round Review of Knowledge and Information Systems.
4. Lian Duan, W. Nick Street, and Eric Xu. "Healthcare Information Systems: Data Mining Methods in the Creation of a Clinical Recommender System". Enterprise Information Systems. Vol.5, No.2, PP.169-181, Apr. 2011.
5. Lian Duan, and W. Nick Street. "Finding Maximal Fully-Correlated Itemsets in Large Databases". In Proceedings of the 2009 IEEE international Conference on Data Mining, PP.770-775, 2009.
6. Lian Duan, Lida Xu, Ying Liu, and Jun Lee. "Cluster-based Outlier Detection". Annals of Operations Research. Vol.168, No.1, PP.151-168, Apr. 2009.
7. Lian Duan, W. Nick Street, and Der-fa Lu. "A Nursing Care Plan Recommender System Using a Data Mining Approach". Third INFORMS Workshop on Data Mining and Health Informatics, Washington D.C., Oct. 2008.
8. Lian Duan, Lida Xu, Feng Guo, Jun Lee, and Baopin Yan. "A Local-density Based Spatial Clustering Algorithm with Noise". Information Systems. Vol.32, No.7, PP.978-986, Nov. 2007.
9. Lian Duan, Haina Tang, and Jun Lee. "A Survey on Network-based Quality of Service for IP Videoconference". Journal on Communications. Vol.26, No.3, PP.111-116, Mar. 2005.
10. Haina Tang, Lian Duan, and Jun Lee. "A Performance Monitoring Architecture for IP Videoconferencing". Proceedings IEEE Workshop on IP Operations and Management, PP.48-54, Oct. 2004.

THESIS:

1. Lian Duan, "Anomaly Detection for Backbone Networks", Computer Network Information Center, Chinese Academy of Sciences, July 2007.

AWARD:

1. \$5000 prize for the challenge 2 in the 2009/2010 OMOP Cup.
2. \$3000 Graduate College 2011 Summer Fellowship of the University of Iowa.

PRESENTATIONS:

1. Community Detection through Correlation. INFORMS, Charlotte, North Carolina, Nov. 2011.

2. Efficiently Finding Maximal Fully-correlated Itemsets in Large Databases. INFORMS, Austin, Texas, Nov. 2010.
3. Making Recommendations with Subsets of Related Features. INFORMS, San Diego, California, Oct. 2009.

TECHNICAL SKILLS:

1. Programming Languages: Java, Python, SQL, Perl, C++, Shells
2. Software: Eclipse, Netbeans, ER/Studio, Weka, Clementine, MySQL, Oracle, SAS, R, Latex
3. Operation System: Windows, FreeBSD, Redhat Linux

PROFESSIONAL ACTIVITIES:

Session Chair

- INFORMS (2010, 2011)

Program Committee

- IEEE International Conference on Data Mining (2011)
- IEEE SMC on Enterprise Information Systems (2008, 2009)

Member

- Institute of Electrical and Electronics Engineers (IEEE)
- Institute for Operations Research and the Management Sciences (INFORMS)

Referee

- Enterprise Information Systems (2007)
- Expert Systems (2008, 2009)
- IEEE International Conference on Data Mining (2009, 2010, 2011)
- IEEE Systems Journal (2010)
- IEEE Transactions on Information Technology in BioMedicine (2011)
- IEEE Transactions on Systems, Man, and Cybernetics--Part C (2007)
- Information Sciences (2008)