

Jie Zhang

Department of Industrial and Manufacturing Engineering
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Education

The Pennsylvania State University, University Park, PA

Ph.D. Candidate in Industrial Engineering with Dual Title of Operations Research

Expected graduation time: Summer 2011

Research interests: Wireless Sensor Networks, Complex Networks, RFID

Inventory Management in Supply Chain Systems

IE skills:

Time Series and Process Control Stochastic Process Statistical Modeling

Scheduling Models Optimization Modeling Linear/nonlinear programming

OR in Supply Chain Dynamic Programming Discrete Event Simulation

Nankai University, Tianjin, China (2000.9 – 2006.6)

M. S. in Management Science and Engineering, Business School

B. S. in Management Information Systems, Business School

Research and Work Experience

The Pennsylvania State University, University Park, PA (2006.8 – Present)

Data analyst in Richtsmeier Lab, Department of Anthropology

- Conduct database administration, image processing and developing special purpose programs (in Java and Microsoft Access VBA) for other researchers.

Research Assistant in Laboratory for Intelligent Systems and Quality (LISQ)

- Container routing in the distributed auto parts supply network.
- Design of inventory control strategies in the food supply chain management.
- Design of adaptive routing protocols for distributed wireless sensor networks.

Teaching Assistant in the courses of

- Linear Programming
- Statistical Modeling
- Economics of Engineering

RFID lab assistant in College of Information Science and Technology

- Assist in RFID hardware testing and interface programming.

Shamrock Technologies (Tianjin) Co., Ltd., China (2005.6 – 2005. 8)

- Design and maintain the database (in Visual Foxpro) for material procurement system in department of Human Resource.

Nankai University, China (2004.8 – 2006.6)

- Participate in the project: the model of information management policy in the SCM
- Teach the course of Introduction of Computer Network Technologies

Activities

The Trading Agent Competition in Supply Chain Management (TAC SCM, 2008/2009)

- Build an intelligent virtual PC manufacturer and adaptive trading strategies in Java, competing with other trading agents in raw material procurement, inventory management, production, and product delivery.

The Association for Operations Management (APICS)

- Member in APICS.
- Proceed in Certified in Production and Inventory Management (CPIM) certificate.

Computer Skills

- **Programming languages:** Java, C++, VB
- **Database:** Microsoft Access, Microsoft SQL Server
- **Simulation languages:** AutoMod, Arena
- **Statistical software:** Minitab, R
- **Mathematical programming:** Matlab, GAMS, LINGO
- **Computer hardware and network configuring**

Publications

- J. Zhang and J. Shi, Study of proxy-based electronic voting system development and its impact on improving Corporation Governance efficiency. the Third International Corporation Governance Forum, Nankai University, China, 2006
- D. Claudio, J. Zhang, and Y. Zhang, A hybrid inventory control system approach applied to the food industry. Proceedings of the 39th conference on Winter simulation, 2007
- D. Claudio, J. Zhang, and Y. Zhang, A Simulation Study for a Hybrid Inventory Control Strategy with Advance Demand Information. International Journal of Industrial and Systems Engineering, 5(1), 2010
- J. Zhang and S. Kumara, An event-driven multi-hop energy aware hierarchical routing protocol for wireless sensor networks. In proceeding, 2010