

## Lihui Bai

### Assistant Professor of Information and Decision Sciences

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### Website

<http://faculty.valpo.edu/lbai>

### Biography

Dr. Bai, a native of China, joined the College of Business Administration at Valpo in 2004 upon completion of her Ph.D. in Industrial and Systems Engineering at the University of Florida. She teaches courses such as Business Statistics, Management Sciences and Business Spreadsheet Applications.

Dr. Bai's research interests include transportation science, congestion pricing and computational optimization. She is also interested in modelling in supply chain management. She has published research papers in journals such as *Networks* and *Academy of Information and Management Sciences Journal*; and pedagogical papers in journals such as *Journal of Economics and Economic Education Research* and *Journal of the International Academy of Case Studies*. She is currently a member of INFORMS and DSI.

### Education

Ph.D. in Industrial and Systems Engineering - University of Florida 2004  
M.S. in Computational Mathematics - Chinese Academy of Sciences, Beijing, China 1999  
B.S. in Computational Mathematics - Inner Mongolia University, Hehehaote, China 1994

### Courses Taught

IDS205: Business Statistics IDS110: Business Spreadsheet Applications  
IDS111: Business Programming IDS493: Seminar in Applied Statistics IDS320:  
Management Science MBA540: Managerial Statistics

### Research Interests

Transportation Science; Congestion Pricing; Computational Optimization;  
Modelling in Supply Chain Management

### Publications

- *Networks* - Decomposition Techniques for the Minimum Toll Revenue Problem (2004)
- *Journal of Economics and Economic Education Research* - The Case of Simulating the Choices of Money Managers By Applying Modern Portfolio Theory Using Real Stock Price Data (forthcoming)

College of Business Administration - Valparaiso University

- *Journal of the International Academy of Case Studies* - Optimizing the Advertising Budget for a Regional Business: the Case of Cycle World (forthcoming)
- *Academy of Information and Management Sciences Journal* - An Evolutionary Method for the Minimum Toll Booth Problem (forthcoming)

## **Professional Affiliations**

- Institute for Operations Research and Management Sciences
- Decision Sciences Institute