

Xingwen ZHANG

Curriculum Vitae (updated November 10, 2009)

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Education

- Ph.D., OIT (Operations, Information and Technology). Graduate School of Business, Stanford University. June 2010 (expected).
 - Dissertation Title: *Contracting on the Process of Discovery*
 - Dissertation Advisor: Sunil Kumar
 - Dissertation Reading Committee: Sunil Kumar, Michael Harrison, Evan Porteus
- Master of Science, Financial Mathematics. Stanford University. June 2008.
 - With A, A+ or H for all courses (for details, refer to <http://www.stanford.edu/~xingwenz/finmath.html>)
- Bachelor of Computing, Computer Science. School of Computing, National University of Singapore. December 2002.
 - First Class Honors
 - Honors Year Thesis Title: *Constraint Programming, Simulated Annealing and Hill-Climbing Algorithm for Traveling Tournament Problems*
 - Honors Year Thesis Advisor: Andrew Lim
 - Minor in Mathematics

Research Interests

- Economics of Innovations and Innovation Alliances
- Economics of Information Technology
- Operations and Finance Interface
- Stochastic Dynamic Optimization and its Applications
- Empirical Research in Technological Innovations
- Large-Scale Optimization

Papers

Journal

1. X. Zhang and S. Kumar. "*Contracting on the Process of Discovery*". Working Paper.
2. A. Lim and X. Zhang. "*A Two-Stage Heuristic with Ejection Pools and Generalized Ejection Chains for the Vehicle Routing Problem with Time Windows*". *INFORMS Journal on Computing*, 19(3):443-457, 2007.
3. A. Lim, B. Rodrigues and X. Zhang. "*Scheduling Sports Competitions at Multiple Venues - Revisited*". *European Journal of Operational Research*, 175(1):171-186, 2006.
4. A. Lim, B. Rodrigues and X. Zhang. "*A Simulated Annealing and Hill-Climbing Algorithm for the Traveling Tournament Problem*". *European Journal of Operational Research*, 174(3):1459-1478, 2006.
5. A. Lim, B. Rodrigues and X. Zhang. "*Metaheuristics with Local Search Techniques for Retail Shelf-Space Optimization*". *Management Science*, 50(1):117-131, 2004.

Refereed Conference

1. X. Zhang and S. Kumar. "*Contracting on the Process of Discovery*". The 14th Manufacturing & Service Operations Management Conference (MSOM2009), Cambridge, Massachusetts, USA, June 2009.
2. A. Lim and X. Zhang. "*The Container Loading Problem*". The 20th Annual ACM Symposium on Applied Computing (SAC2005), Santa Fe, New Mexico, USA, March 2005.
3. A. Lim and X. Zhang. "*A Two-Stage Heuristic for the Vehicle Routing Problem with Time Windows and a Limited Number of Vehicles*". The 38th Hawaii International Conference on System Sciences (HICSS-38), Hawaii, USA, January 2005.
4. A. Lim, X. Zhang and Y. Zhu. "*A Hybrid Method for the Graph Coloring and Related Problems*". The 5th Metaheuristics International Conference (MIC2003), Kyoto, Japan, August 2003.
5. A. Lim and X. Zhang. "*Integer Programming and Simulated Annealing for Scheduling Sports Competition on Multiple Venues*". The 5th Metaheuristics International Conference (MIC2003), Kyoto, Japan, August 2003.
6. A. Lim, B. Rodrigues, F. Xiao and X. Zhang. "*Adjusted Network Flow for the Shelf-Space Allocation Problem*". The 14th International Conference on Tools with Artificial Intelligence (ICTAI2002), Washington, USA, November 2002.

Work and Teaching Experience

- 2008-2009, Graduate School of Business, Stanford University
 - Course Co-developer and Lecturer
 - PhD core: Fundamentals of OIT – Stochastic Dynamic Programming segment (Fall 2008-09)
 - Teaching Assistant
 - MBA elective: Business Process Design (Fall 2009-10)
 - MBA elective: Price and Revenue Optimization (Spring 2008-09)
- 2003-2005, Department of Industrial Engineering and Engineering Management, Hong Kong University of Science and Technology
 - Instructional/Research Assistant

Awards and Honors

- Recipient of GSB Fellowship (2005-2010) for Study at Graduate School of Business, Stanford University
- 4th in 01/02 ACM International Collegiate Programming Contest (Asian Regionals, Taiwan, November 2001)
- 4th in 01/02 ACM International Collegiate Programming Contest (Asian Regionals, Japan, November 2001)
- 29th (Reserve) in 00/01 ACM International Collegiate Programming Contest (World Finals, Canada, March 2001)
- Meritorious Prize in the Mathematical Contest in Modeling, administered by the Consortium for Mathematics and its Applications (2001)

Computer Skills

- Excellent in Java, C++, MATLAB, R
- Excellent in Algorithm Design and Implementation, especially in Exact and Heuristic Optimization

References

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