

# Tieming Liu

School of Industrial Engineering and Management, Oklahoma State University, Stillwater, OK, 74078  
Phone: (405) 744-6055. Fax: (405) 744-4654. Email: tieming.liu@okstate.edu

---

## PROFESSIONAL EXPERIENCE

- 07/2011 - Present**      **Associate Professor**  
School of Industrial Engineering and Management  
Oklahoma State University, Stillwater, OK
- 08/2005 - 06/2011**      **Assistant Professor**  
School of Industrial Engineering and Management  
Oklahoma State University, Stillwater, OK
- 05/2004 - 08/2004**      **Research Consultant**  
Department of Distributed Computing  
IBM T.J. Watson Research Center, Yorktown Heights, NY

## EDUCATION

- 2005**              **Ph.D. Transportation and Logistics**  
Massachusetts Institute of Technology, Cambridge, MA  
Dissertation: Revenue Management Models in the Manufacturing Industry
- 2001**              **M.S. Industrial Engineering and Management**  
Northwestern University, Evanston, IL
- 2000/1997**        **M.S./B.S. Control Theory and Control Engineering**  
Tsinghua University, Beijing, China

## RESEARCH INTERESTS

- Supply Chain Coordination and Mechanism Design
- Transportation Planning and Safety
- Healthcare Data Analytics
- Renewable Energy

## AWARDS

- Halliburton Outstanding Faculty Award, OSU, 2014.
- Merrick Foundation Teaching Award, OSU, 2013.
- Riata/Koch Faculty Fellow, OSU, 2012.
- Lockheed Martin Teaching Award, OSU, 2011.
- Student Organization Faculty Advisor of the Year, OSU, 2010.

## PATENTS

- **Liu, T., Z. Liu, L. Wynter.** Method and Apparatus for Joint Pricing and Resource Allocation Under Service-Level Agreement. U.S. Patent Application Number: 12/131227.

## JOURNAL PUBLICATIONS

1. Zhou, Y., **T. Liu**. Impacts of the Renewable Portfolio Standard on Regional Electricity Markets. In Press at Journal of Energy Engineering in 2014. DOI: 10.1061/(ASCE)EY.1943-7897.0000202.
2. F. Mahdavi Pajouh, D. Xing, Y. Zhou, S. Hariharan, B. Balasundaram, **T. Liu**, and R. Sharda. 2013. A specialty steel bar company uses analytics to determine available-to-promise dates. *Interfaces*. 43(6):503-517
3. D. Xing, **T. Liu**. 2012. Sales Effort Free Riding and Coordination with Price Match and Channel Rebates. *European Journal of Operational Research*. 219(2): 264-271.
4. Larasati, A., **T. Liu**, F. Epplin. 2012. An Analysis of Logistic Costs to Determine Optimal Size of a Biofuel Refinery. *Engineering Management Journal*, 24 (4), 63 - 72.
5. Onal, M., W. van den Heuvel, **T. Liu**. 2012. A Note on "The Economic Lot Sizing Problem with Inventory Bounds". *European Journal of Operational Research*, 223 (1), 290-294.
6. Iravani, S., **T. Liu**, D. Simchi-Levi. 2012. Optimal Production and Admission Policies in Make-to-Stock/Make-to-Order Manufacturing Systems. *Production and Operations Management*. 21(2): 224-235.
7. **Liu, T.**, M. Li. 2012. Structure Flexibility Indices with Shrinking Capacities in Cross Production. *International Journal of Production Research*. 50(2): 393-407.
8. **Liu, T.**, C. Methapatara, L. Wynter. 2010. Revenue Management Model for On-demand IT Services. *European Journal of Operational Research*. 207(1): 401-408.
9. Guan, Y., **T. Liu**. 2010. Stochastic Economic Lot Sizing with Inventory Bounds and Order Capacities. *European Journal of Operational Research*. 207 (3): 1398-1409
10. Hu, Y., Y. Guan, and **T. Liu**. 2010. Lead-Time Hedging and Coordination between Manufacturing and Sales Departments Using Nash and Stackelberg Games. *European Journal of Operational Research*. 210 (2), 231-240.
11. **Liu, T.** 2008. Economic Lot Sizing Problem with Inventory Bounds. *European Journal of Operational Research*. 185(1), 204-215.
12. Duran, S., **T. Liu**, D. Simchi-Levi, and J. Swann. 2008. Policies Utilizing Tactical Inventory Policies for Service-Differentiated Customers. *Operations Research Letters*. 36(2), 259-264.
13. Iravani, S., **T. Liu**, L. Luangkesorn, D. Simchi-Levi. 2007. A Produced-to-Stock System with Advance Information and Secondary Customers. *Naval Research Logistics*. 54 (3), 331-345.
14. Duran, S., **T. Liu**, D. Simchi-Levi, J. Swann. 2007. Optimal Production and Inventory Policies of Priority and Price-differentiated Customers. *IIE Transactions*. 39 (9), 845-861.
15. Li, X., N. Ye, **T. Liu**, and Y. Sun. 2006. Job Scheduling to Minimize the Weighted Waiting Time Variance of Jobs. *Computers and Industrial Engineering*, 52 (1), 41-56.
16. **Liu, T.**, Y. Fan. 2000. Simulation and Modeling of Enterprise Process Based on Workflow. *Journal of Tsinghua University Science and Technology*, 39 (2), 107-111.
17. **Liu, T.**, G. Xiong, J. Shen, Y. Fan, T.R. Nyberg. 2000. Research on CIMS Application in Pulp & Paper Industry. *Industrial Instrumentation and Automation*, 30 (3), 3-6.
18. Shen, J., G. Xiong, **Liu T.**, T.R. Nyberg, Y. Fan. 2000. Research on Enterprise Integrated Techniques in CIPS. *Information and Control*, 29 (5), 386-392.
19. **Liu, T.**, Y. Fan. 1999. Design of Application Coordination Module Based on Workflow Management. *Computer Engineering and Application*, 35 (2), 56-62.

## PEER REVIEWED CONFERENCE PAPERS

1. Piri, S. **T. Liu**. Integrated Dynamic Pricing and Ordering with Demand Learning. ISERC, Montreal, Canada, May 2014.
2. **Liu, T.**, H.Y. Mak, M. Shen. Disruption Management with Cross Production and Cross Pricing. Manufacturing and Service Operations Management (MSOM) Conference, College Park, MD, June 2008.
3. Iravani, S., **T. Liu**, D. Simchi-Levi. Optimal Production and Admission Policies in Make-to-Stock/Make-to-Order Manufacturing Systems. Manufacturing and Service Operations Management (MSOM) Conference, Beijing, China, June 2007.