

LEON YANG CHU

4141 Etcheverry Hall, Mail Code 1777
Department of Industrial Engineering
and Operations Research
University of California
Berkeley, CA 94720-1777
Phone: (510) 642-8252
Fax: (510) 642-1403

1726 Lincoln St. Apt. 5
Berkeley, CA, 94703
Home: (510) 486-8057
Cell: (352) 871-4221
Website: <http://plaza.ufl.edu/zhuyang>
Email: leonyzhu@berkeley.edu

RESEARCH INTERESTS

Operations Management, Auction and Game Theory, Supply Chain Management, Inventory Control and Optimization, Contracting and Coordination

PROFESSIONAL EXPERIENCE AND EDUCATION

Postdoc	<i>Industrial Engineering and Operations Research</i>	2005 – present
	University of California, Berkeley	
Ph.D.	<i>Industrial and Systems Engineering</i> , University of Florida	2001 – 2005
	Dissertation: Dominant Strategy Double Auction Mechanisms	
	Max Shen (chair), Ravindra Ahuja, Donald Hearn, and Gary Koehler	
M.A.	<i>Economics</i> , University of Florida	2001 – 2004
B.S.	<i>Electrical Engineering</i> , Shanghai Jiaotong University	1997 – 2001

JOURNAL PAPERS

- Chu, L. Y., V. N. Hsu, Z. M. Shen, 2005, "An Economic Lot-Sizing Problem with Perishable Inventory and Economies of Scale Costs: Approximation Solutions and Worst Case Analysis," *Naval Research Logistics*, **52**(6), pp 536-548.
- Chu, L. Y., Z. M. Shen, 2003, "Agent Competition Double Auction Mechanism," conditionally accepted by *Management Science*.
- Chu, L. Y., Z. M. Shen, 2005, "Dominant Strategy Double Auction for e-Marketplace," submitted to *Operations Research*.
- Chu, L. Y., D. E. Sappington, 2005, "Simple Cost-Sharing Contracts," submitted to *American Economic Review*.
- Chu, L. Y., D. E. Sappington, 2005, "Procurement Contracts: Theory vs. Practice," submitted to *Journal of Political Economy*.
- Chu, L. Y., Z. M. Shen, 2005, "A Power-of-two Ordering Policy for One Warehouse, Multi-Retailer Systems with Stochastic Demand," submitted to *Operations Research*.
- Chu, L. Y., Z. M. Shen, 2005, "Trade Reduction vs. Multi-Stage: A Comparison of Double Auction Design Approaches," submitted to *European Journal of Operational Research*.

Chu, L. Y., Z. M. Shen, 2005, "Solving Operational Statistics via a Bayesian Analysis," working paper.

CONFERENCE PROCEEDINGS

- Shen, Z. M., L. Y. Chu, "Practical Double Auction Mechanism Design," *Proceedings of the 2005 NSF Design, Service and Manufacturing Grantees and Research Conference*, Scottsdale, AZ.
- Chu, L. Y., Z. M. Shen, 2004, "Double Auction Mechanisms for Supply Chain Formation Problems," *Proceedings of the 7th International Conference on Electronic Commerce Research*, Dallas, TX.
- Chu, L. Y., Z. M. Shen, 2004, "Agent Competition Double Auction Mechanism," *Proceedings of the 2004 Industrial Engineering Research Conference*, Houston, TX.
- Chu, L. Y., Z. M. Shen, 2002, "Perishable Stock Lot-sizing Problem with Modified All-unit Discount Cost Structures," *Global Supply Chain Management*, edited by Jian Chen, Tsinghua University Press, pp. 13-18.

CONFERENCE PRESENTATIONS

- "A Double Auction Mechanism for e-Marketplace,"
INFORMS Annual Meeting, San Francisco, CA, 2005
- "Dominant Strategy Double Auction Mechanisms with Applications in Supply Chain Formation Problems," INFORMS Annual Meeting, Denver, CO, 2004
- "Periodic Ordering Policy for One Warehouse, Multi-Retailer Systems under Stochastic Demand," INFORMS Annual Meeting, Denver, CO, 2004
- "Agent Competition Double Auction Mechanism,"
IIE Research Conference, Houston, TX, 2004
- "Dominant Strategy Double Auction Mechanisms,"
3rd NSF Workshop on SCM, Gainesville, FL, 2004
- "Dominant Strategy Double Auction with Pair-related Cost,"
INFORMS Annual Meeting, Atlanta, GA, 2003
- "Approximation Algorithms for Perishable Inventory Lot-Sizing Problem,"
INFORMS Annual Meeting, San Jose, CA, 2002

AWARDS AND HONORS

ISE Graduate Student Research Award	2004
College of Engineering Scholarship	2004
University of Florida Alumni Fellowship	2001 – 2005
Meritorious Award, Mathematical Contest in Modeling <i>Out of 500 institutions around the world</i>	1999

Exceptional Student of Shanghai Jiao tong University <i>1st place university-wide</i>	1998
1 st Price, National Mathematics Winter Camp <i>Selected into the Training Camp for International Mathematical Olympiad</i>	1997
1 st Price, National Mathematics Winter Camp <i>4th place nation-wide</i> <i>Selected into the Training Camp for International Mathematical Olympiad</i>	1996
Tau Beta Pi, the Engineering Honor Society, Member	2004
INFORMS, Future Academician Colloquium participant	2004
DSI Annual Conference, Doctoral Student Consortium participant	2004

TEACHING EXPERIENCE

Instructor:	Facilities Planning and Material Handling, (4.0/5.0)	2004
	-- Upper Division Course required for all ISE undergraduates	

Enrolled: 21 - Responding: 20 (95.23%)

	Very					No
	Excel	Good	Good	Fair	Poor	Resp
1) Description of course objectives and assignments	35.00	35.00	25.00	5.00	.00	.00
2) Communication of ideas and information	15.00	40.00	35.00	10.00	.00	.00
3) Expression of expectations for performance in class	25.00	45.00	20.00	5.00	5.00	.00
4) Availability to assist students in or out of class	65.00	25.00	10.00	.00	.00	.00
5) Respect and concern for students	55.00	40.00	5.00	.00	.00	.00
6) Stimulation of interest in course	25.00	45.00	25.00	5.00	.00	.00
7) Facilitation of learning	30.00	40.00	20.00	5.00	5.00	.00
8) Overall assessment of instructor	25.00	55.00	15.00	5.00	.00	.00

Teaching Assistant:	Advanced Production and Inventory Control,	2003, 2004
	-- Elective Graduate Qualifying Examination Course	

PROFESSIONAL SERVICES

Session Chair	INFORMS Annual Meeting, San Francisco, CA, Nov. 2005 IIE Research Conference, Houston, TX, May 2004
Referee	<i>IEEE Conference on E-Commerce, IIE Transactions on Scheduling and Logistics, Manufacturing and Service Operations Management, Mathematical and Computational Models for Congestion Charging, Naval Research Logistics, Operations Research</i>