

Kevin H. Shang

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ACADEMIC POSITIONS

Duke University, The Fuqua School of Business
Associate Professor with tenure, July 2010 – present
Associate Professor, July 2007 – June 2010
Assistant Professor, July 2002 – June 2007

University of California, Irvine, The Paul Merage School of Business
Instructor, July 2001
Teaching/Research Assistant, July 1999 - 2002

EDUCATION

University of California, Irvine, CA
The Paul Merage School of Business
Ph.D., Operations and Decision Technologies, 2002

University of California, Riverside, CA
The A. Gary Anderson Graduate School of Management
M.B.A., 1998

National Chiao Tung University, Hsinchu, Taiwan
B.S., Management Science, 1993

PUBLICATIONS

Published Papers

Kiang, M. Y., T. S. Raghu, K. H. Shang. 2000. Marketing on the Internet-Who Can Benefit from an On-line Marketing Approach? *Decision Support Systems* **27** 383-393.

Shang, K., J.-S. Song. 2003. Newsvendor bounds and heuristic for optimal inventory policies in serial supply chains. *Management Science* **49** 618-638.

Boyaci, T., G. Gallego, K. Shang, J.-S. Song. 2003. Erratum to bounds in “serial production/inventory systems under service constraints”. *Manufacturing & Service Operations Management* **5** 372-374.

Shang, K., J.-S. Song. 2006. A closed-form approximation for serial inventory systems and its application to system design. *Manufacturing & Service Operations Management* **8** 394-406.

Shang, K., J.-S. Song. 2007. Supply chains with economies of scale: single-stage heuristic and approximations. *Operations Research* **55** 843-853.

Kok, G., K. Shang. 2007. Inspection and replenishment policies for systems with inventory record inaccuracy. *Manufacturing & Service Operations Management* **9** 185-205.

Shang, K., 2008. Note: A simple heuristic for serial inventory systems with fixed order costs. *Operations Research* **56** 1039-1043.

Shang, K., J.-S. Song, P. Zipkin. 2009. Coordination mechanisms in decentralized serial inventory systems with batch ordering. *Management Science* **55** 685-695.

Shang, K., S. Zhou. 2009. A simple heuristic for echelon (r, nQ, T) policies in serial supply chains. *Operations Research Letters* **37** 433-437.

Shang, K., S. Zhou. 2010. Optimal and heuristic echelon (r, nQ, T) policies in serial inventory systems with fixed costs. *Operations Research* **58** 414-427.

Shang, K., S. Zhou, G.-J. van Houtum. 2010. Improving supply chain performance: real-time demand information and flexible deliveries. *Manufacturing & Service Operations Management* **12** 430-448.

Shang, K. 2011. Single-stage approximations for optimal policies in serial inventory systems with non-stationary demand. Accepted by *Manufacturing & Service Operations Management*.

Shang, K. 2011. Simple heuristics for optimal inventory policies in supply chains. Chapter 7 in *Tutorials in Operations Research*, INFORMS.

Working Papers

Kok, G., K. Shang. 2009. Evaluation of supply chains with inventory inaccuracy and implications on IT investments. Fuqua School of Business, Duke University.

Shang, K., S. Zhou. 2010. Optimizing replenishment intervals for two-echelon distribution systems with fixed order costs. Fuqua School of Business, Duke University.

Bernstein, F., Y. Li, K. Shang. 2011. A simple heuristic for joint inventory and pricing problems with lead times. Fuqua School of Business, Duke University.

Luo, W., K. Shang. 2011. Integrating inventory replenishment and cash payment decisions in supply chains. Fuqua School of Business, Duke University.

PRESENTATIONS

Invited Presentations at Academic Institutions

California State University, Northridge (2002)
Carnegie Mellon University (2003)
Case Western University (2002)
Chinese University of Hong Kong (2010)
Columbia University (2002, 2009)
Duke University (2002)
Honk Kong University of Science and Technology (2010)
I-Shou University (2003)
Lehigh University (2006)
National Chiao Tung University (2011)
National Chung Cheng University (2006)
National Taiwan University (2010)
National University of Singapore (2011)
Naval Postgraduate School (2002)
New York University (2006)
North Carolina State University (2004)
Pennsylvania State University (2002)
University of British Columbia (2006)
University of California, Irvine (2001, 2002, 2011)
University of North Carolina at Chapel Hill, Kenan-Flagler (2006)
University of North Carolina at Chapel Hill, Stat. & OR (2008)
University of Southern California (2002)
Washington University (2007)

Conference Presentations

INFORMS Annual Meeting, Charlotte, NC, November 2011
MSOM Annual Conference, University of Michigan, Ann Arbor, MI, June 2011
INFORMS Annual Meeting, Austin, TX, November 2010
INFORMS Annual Meeting, San Diego, CA, November 2009
INFORMS Annual Meeting, Washington D.C., November 2008
MSOM Annual Conference, University of Maryland, College Park, MD, June 2008
INFORMS Annual Meeting, Seattle, WA, November 2007
Multi-echelon/MSOM Annual Conference, Tsinghua University, China, June 2007
INFORMS Annual Meeting, Pittsburgh, PA, November 2006
International Conference on Computers and Industrial Engineering, Taipei, Taiwan, June 2006
INFORMS International Conference, Hong Kong, China, June 2006

INFORMS Annual Meeting, San Francisco, CA, November 2005
Multi-echelon/MSOM Annual Conference, Northwestern University, IL, June 2005
INFORMS Annual Meeting, Denver, CO, October 2004
INFORMS Annual Meeting, Atlanta, GA, October 2003
MSOM Annual Conference, University of Southern California, CA, June 2003
INFORMS Annual Meeting, San Jose, CA, November 2002
Multi-echelon/MSOM Annual Conference, Cornell University, NY, June 2002
INFORMS Annual Meeting, Miami, FL, November 2001
INFOR International Conference, Maui, HI, June 2001
Operations Research and Operations Management Conference, University of
Southern California, CA, June 2001
Multi-echelon/MSOM Annual Conference, University of California at Berkeley, CA,
June 2001

TEACHING

Duke University

Daytime MBA

Operations Management (Core)

Information Systems for Production Management

Executive MBA

Operations Management (Core)

Project Management

Ph.D.

Stochastic Models and Simulation

University of California, Irvine

Undergraduate

Quantitative Methods for Management

AWARDS

First Place, Manufacturing and Service Operations Management Society (MSOM)

Student Paper Competition, INFORMS, 2001

Title: "Newsvendor Bounds and Heuristic for Optimal Inventory Policies in Serial
Supply Chains"

Honorable Mention, Junior Faculty Interest Group Paper Competition, INFORMS, 2005

Title: "Inspection and Replenishment Policies for Systems with Inventory Record
Inaccuracy"

Meritorious Service Award, Manufacturing and Service Operations Management, 2007

SERVICE

University Service

Operations Management PhD Program Chair, Duke University 2010 – present
Curriculum Committee, Duke University, 2010 – present
Ad-hoc Grade Petition Committees, Duke University, 2010

Professional Service

Editorial Positions

Associate Editor, *Naval Research Logistics*, 2007 – present
Associate Editor, *Manufacturing and Service Operations Management*, 2008 – present
Associate Editor, *Management Science*, 2010 – present

Committees

Vice President of Meetings, INFORMS MSOM, 2007 – 2008
Judge for MSOM Student Paper Competition, 2003, 2006 – 2011
Judge for Production and Operations Management Society (POM) Student Paper Competition, 2007 – 2008
Dissertation Committee for Zhijie Tao, Chinese University of Hong Kong, 2010

Conference Activities

Cluster Chair

INFORMS International Conference, Hong Kong, June 2006
INFORMS Annual Meeting, San Diego, CA, November 2009

Session Chair

International Conference on Computers and Industrial Engineering, Taipei, Taiwan, June 2006.
INFORMS Annual Meeting, Seattle, WA, November 2007
INFORMS Annual Meeting, San Diego, CA, November 2009
INFORMS Annual Meeting, Charlotte, NC, November 2011

Referee Activities

Referee for the following journals:

Management Science, Operations Research, Manufacturing and Service Operations Management, Naval Research Logistics, Production and Operations Management, European Journal of Operational Research, IIE Transactions, IEEE Transactions on Automatic Control, INFORMS Journal on Computing

Reviewer for GRF System of Research Grants Council, Hong Kong

Reviewer for Ph.D. Dissertation Proposal, Beta Research School for Operations Management and Logistics, Technische Universiteit Eindhoven

Memberships

The Institute of Operations Research and Management Science (INFORMS)
Manufacturing and Service Operations Management Society (MSOM)
Production and Operations Management Society (POMS)
The Association for Operations Management (APICS)

(Updated: January 2012)