



## ***Kamran Moinzadeh, Ph.D.***

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### **Residence**

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## **EDUCATION**

- 1985 Ph.D. in Industrial Engineering, Stanford University
- 1982 MS in Operations Research, Stanford University
- 1981 BA in Computer Science, University of California, San Diego

## **PROFESSIONAL EXPERIENCE**

- Chair: Department of Information Systems and Operations Management (ISOM, 2011-Present)
- Burlington Northern/Burlington Resources Professor of Manufacturing Management (July 1995-)
- Professor: Foster School of Business; University of Washington (September 1994-)
- Associate Dean of Faculty and Academic Affairs (1999-2000)
- Affiliate Professor: Dept. of Industrial Engineering, U. of Washington (2000- 2005)
- Acting Chair: Department of Management Science; University of Washington Business School (September 1997 - December 1997)

- Co-Director: Program in Engineering and Manufacturing Management (PEMM), University of Washington (September 1995-1999, December 2001-June 2002)
- Associate Professor: University of Washington Business School, University of Washington (September 1990- 1994)
- Assistant Professor: University of Washington Business School (September 1984- September 1990)
- Teaching Assistant, Department of Industrial Engineering and Engineering Management, Stanford University (1982-1984)
- Research Assistant, Department of Operations Research, Stanford University (1983)
- Consultant to Microsoft Corp. (Redmond, WA), AT&T Wireless (Redmond, WA), Starbucks Coffee Inc. (Seattle, WA), Boeing Computer Services (Bellevue, WA), John Thompson Co. (Los Altos, CA)

## **COURSES TAUGHT**

- **TMMBA 516:** An introductory in Operations and Supply Chain Management in the MBA program in Technology Management.
- **OpMgt 587:** Advanced Topics in Inventory Management: An advanced Ph.D. course in inventory control. Topics such as deterministic, stochastic, multi-echelon, multi-product inventory models and the recent research in the area of inventory control will be covered.
- **QM 592:** Stochastic Models in Operations Research: An advanced Ph.D. level course in Queueing Systems and Discrete Event Simulation. Topics such as Markovian queues, networks, priority queues, and techniques for the generation of random variables and regenerative simulation technique will be covered.
- **OpMgt 579:** Doctoral Readings in Operations Management: A Doctoral level course dedicated to studying the most recent research in Operations Management.
- **BA/OpMgt 502:** Introduction to Operations Management: A coordinated introductory MBA core course. Subjects such as Productivity and Competitiveness, Operations Strategy, Total Quality Management, Capacity Management, Just in Time production philosophy, Inventory and Supply Chain Management are among the topics discussed.

- **OpMgt 443:** Inventory and Supply Chain Management: Introduction to inventory models and their role in service or production environments. Topics such as forecasting, deterministic and stochastic inventory models, lean operation, JIT systems, MRP systems, supply contracts and global supply chains will be covered.
- **OpMgt 301:** Principals of Operations Management: Survey undergraduate course, which includes the application of quantitative analysis to problems in planning, operations and control in Service or Manufacturing environments.
- **BA 505:** An introductory in Operations and Supply Chain Management in the GMBA program.
- **MSIS 511:** An introductory in Operations and Supply Chain Management in the Executive MS/MBA program in Information Systems.
- **Integrated Administration 510:** A graduate level introductory course in management for non-business majors. The operations management module is designed to provide the students with the basic background and tools of the field.
- **OpMgt 599:** Doctoral Seminar in Operations Management.

#### **OTHER TEACHING**

- Zaragoza Logistics Institute Ph.D. Camp. Zaragoza, Spain (Summer 2011)
- UW-PACAAR Executive Program in Supply Chain Management
- Executive Program in Technology; U. of Washington
- Aerospace and Manufacturing Education Seminar (AMES), U. of Washington
- U.S. Department of Labor, Seattle, WA

#### **DOCTORAL DISSERTATION COMMITTEES**

- Prahbu Aggarwal: Associate Professor, School of Business, College of William and Mary (8/1992)
- Mikail Weigelt: Amazon.com, T-Mobile (8/1994)
- Emre Berk: Associate Professor, School of Business, Bilkent University (8/1996)
- Joong Son: Assistant Professor, School of Management, Kansas State University (9/2000)
- Yong Tan: Professor, Foster School of Business, U. of Washington (9/2000)
- Weiyu Tsai: Assistant Professor, School of Business, U. of Utah (9/2003)

- Mustafa C. Gurbuz: Assistant Professor, Zaragoza Logistics Institute, Spain (9/2006)

## RESEARCH INTERESTS

- Stochastic Models in Production/Operations Management
- Inventory Management
- Supply Chain Management

## EDITORIAL ACTIVITIES

- **Associate Editor, Operations Research**, Department of Manufacturing, Service and Supply Chain Operations, (2006-)
- **Department Editor, IIE Transactions**, Department of Inventory and Supply Chain Management, (1997-2000)
- **Associate Editor, Management Science**, (1998-2003)
- **Associate Editor, Operations Research**, Logistics and Supply Chain Management, (1995-1999)
- **Associate Editor, Operations Research**, Department of Manufacturing, Production and Scheduling, (1994-1995)
- **Advisor to Production and Operations Management Society**, (1998-2003)
- **Editorial Board, IIE Transactions**, (1996-1997)
- **Associate Editor, IIE Transactions**, Department of Inventory, (1990-1996)
- **Referee**: Management Science, Operations Research, IIE Transactions, Manufacturing, Service Operations Management (MSOM), Production and Operations Management (POM), Naval Research Logistics, European Journal of Operations Research (EJOR), Decision Science, Production and Operations Management Society, OR Letters.
- **Reviewer**: The National Science Foundation (NSF).

## BOOK REVIEW

- "Foundations of Inventory Management," by Paul Zipkin (Irwin).
- "Decision Systems for Inventory Management and Production Planning," by E. Silver & D. Pyke (Wiley).
- "Foundations of Operations Management," by Chase, Aquilano and Davis (Irwin).

## PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Institute For Operations Research and Management Sciences (INFORMS), 1995-present, (Full Member)
- Institute of Industrial Engineers (Senior Member)
- Institute of Management Science, 1983-1994 (Full Member)
- Operations Research Society of America, 1983-1994 (Full Member)
- Chair of the Multi-Echelon Inventory Conference; Seattle, 1998.

## HONORS AND AWARDS

- TMMBA Professor of the Quarter (Autumn 2013)
- Recipient of Ron Crocket Award for Graduate teaching (2013)
- TMMBA Professor of the Quarter (Autumn 2012)
- Recipient of Faculty Excellence in Teaching in the TMMBA Program (2012)
- TMMBA Professor of the Quarter (Autumn 2011)
- TMMBA Professor of the Quarter (Autumn 2010)
- Recipient of Dean's Faculty Research Award (2001)
- MBA Core Professor of the Quarter (Spring 2001)
- MBA Core teaching award (1997-98)
- MBA Core teaching award (1996-97)
- Recipient of Operations Research Meritorious Service Award (1996)
- Recipient of Dean's Faculty Research Award (1996)
- Recipient of Seafirst Faculty Excellence Award (1987)
- Recipient of Burlington Northern Foundation Faculty Achievement Award (1990)
- Research Grants from "Center for Retail and Transportation", University of Washington (1987 & 1989)
- Summer Research Grant. School of Business, University of Washington (1985 through 2013)
- Research Grant from Center for International Business Education and Research (CIBER), University of Washington (1991)
- Research Grant from Program in Engineering and Manufacturing Management (PEMM), University of Washington (1993, 94, 95)

## PUBLICATIONS

36. "Leadtime Management through Expediting in a Continuous Review Inventory System," (with Hamed Mamani), *Production and Operations Management (POM)*, 23, 1, 95-109, 2014.
35. "A Single-Supplier, Multiple-Retailer Model with Single-Season, Multiple-Ordering Opportunities and Fixed Ordering Cost," (with Y.P. Zhou and A. Jain), *Operations Research*, 5, 1098-1110, 2012.

34. "Incorporating Delay Mechanism in Ordering Policies in Multi-Echelon Distribution Systems," (with Yong-Pin Zhou), *IIE Transactions*, 40-4,445-458, 2008.
33. "A Supply Chain Model with Direct and Retail Channels," (with Dumrongsiri, Fan and Jain), *European Journal of Operational Research*, 187 691-719, 2008.
32. "Coordinated Replenishment and Shipping Strategies in Inventory/Distribution Systems," (with M. Gurbuz and Y.P. Zhou), *Management Science*, 53,2, 293-307, 2007.
31. "A Supply Chain Model with Reserve Information,"(with Apurva Jain), *Manufacturing and Service Operations Management*, 7(4), 360-378, 2005.
30. "Economic Control and Inspection Policies for High Speed Unreliable Production Systems," (with Y. Tan), *IIE Transactions*, 37(8), 711-724, 2005.
29. "Value Based design of Electronic Commerce Servers," (with Tan and Mookerjee); *INFORMS Journal of Computing*, 17, 99-110, 2005.
28. "A Multi-Echelon Inventory System with Information Exchange," *Management Science*, 48, 414-426, 2002.
27. "Coordinating Orders in supply chains through price discount," with T.D. Klatorin and J. Son), *IIE Transactions*, 34,8, 679-690, 2002.
26. "An Improved Ordering Policy for Continuous Review Inventory Systems with Arbitrary Inter-demand Time Distributions," *IIE Transactions*, 33,2,111-118, 2001.
25. "Analysis of Maintenance Policies for M machines with Deteriorating Performance," (with E. Berk), *IIE Transactions*, 32,5,433-444, 2000.
24. "Adjustment Strategies for a Fixed Delivery Contract," (with S. Nahmias), *Operations Research*, 3, 408-423, 2000.
23. "An Archiving Model for a Hierarchical Information Environment," (with E. Berk), *European Journal of Operational Research*, 123, 1, 206-225, 2000.
22. "The Impact of Discharge Decisions on Health Care Quality," (with Emre Berk), *Management Science*, 44, 400-415, 1998.
21. "Lot Sizing with Randomly Graded Yields," (with S. Nahmias), *Operations Research*, 6, 974-986, 1997.

20. "Analysis of a Production/Inventory System Subject to Random Disruptions," (with P. Aggarwal), *Management Science*, 43, 1577-1588, 1997.
19. "An Information Based Multi-Echelon Inventory System," (with P. Aggarwal), *Operations Research*, 5, 694-701, 1997.
18. "The Impact of Small Lot Ordering on Traffic Congestion in a Physical Distribution System," (with T.D. Klastorin and E. Berk), Special Issue of Supply Chain Integration and Coordination, *IIE Transactions*, 8, 671-680, 1997.
17. "Replenishment and Stocking Policies for Inventory Systems with Random Deal Offerings," *Management Science*, 43, 334-342, 1997.
16. "Measuring the Impact of a Delay Buffer on Quality Costs with an Unreliable Production Process," (with T.D. Klastorin), *Management Science*, 41, 513-523, 1995.
15. "Order Expedition in Multi-Echelon Production/Distribution Systems," (with P. Aggarwal), *IIE Transactions*, 2, 86-96, 1994.
14. "On the Use of Buffer Inventories to Minimize Costs with Unreliable Machines," (with T.D. Klastorin and L. Matheson), *IIE Transactions*, 5, 50-62, 1993.
13. "An Inventory Model of Immediate and Delayed Delivery," (with C. Ingene), *Management Science*, 5, 536-548, 1993.
12. "Optimal File Management in a Hybrid Storage System," (with T.D. Klastorin, G. Diehr and B. Han), *European Journal of Operational Research*, 64, 3, 370-383, 1993.
11. "An (S-1, S) Inventory System with Emergency orders," (with Charles Schmidt), *Operations Research*, 2, 308-321, 1991.
10. "A Repairable Item Inventory System with Diagnostics and Repair Service," (with H.L. Lee), *European Journal of Operational Research*, 40, 2, 210-221, 1989.
9. "Operating Characteristics of the (S-1, S) Inventory System with Partial Backorders and Constant Resupply Times," *Management Science*, 4, 472-477, 1989.
8. "Optimal Production Lot-Sizing Under Learning Effects," (with T.D. Klastorin), *IIE Transactions*, 21, 1, 2-10, 1989.

7. "Approximate Order Quantity and Reorder Points for Inventory Systems where Order Arrives in Two Shipments," (with H.L. Lee), *Operations Research*, 2, 277-287, 1989.
6. "A Continuous Review Model for an Inventory System with Two Supply Modes," (with S. Nahmias), *Management Science*, 34, 761-773, 1988.
5. "A Continuous Review Inventory Model with Constant Resupply Time and Defective Items," (with H.L. Lee), *Naval Research Logistics Quarterly*, 34, 365-380, 1987.
4. "Operating Characteristics of a Two-Echelon System for Repairable and Consumable Items under batch Ordering and Shipment Policy," (with H.L. Lee), *Naval Research Logistics Quarterly*, 34, 457-467, 1987.
3. "Two-Parameter Approximations for Multi-Echelon Repairable Inventory Models with Batch Ordering Policy," (with H.L. Lee), *IIE Transactions*, 19, 2, 140-149, 1987.
2. "A Model for Continuous Production Control with Warning Signals to Fault Occurrences," (with H. Lee and G. Tagaras), *Journal of the Operational Research Society*, 37, 5, 515-523, 1986.
1. "Batch Size and Stocking Levels in Multi-Echelon Repairable Systems," (with Hau L. Lee), *Management Science*, 12, 1567-1581, 1986.

## WORKING PAPERS

- "The Value of Flexibility in Projects: The Impact of Resource Buffers and Dynamic Scheduling" (with T.D. Klastorin and H. Mamani), submitted to *IIE Transactions* (**reject and resubmit**)
- "A two-class rental model with subscription (or waiting-list) based demand," (with A. Jain, H. Mamani and A. Dumrongsiri), submitted to *MSOM* (**two revisions**)
- "Contracting Models for P2P Content Distribution," (with Y. Li and Y. Tan), submitted to *Management Science* (**two revisions**)
- "Impact of Retailers with Knowledge of Supplier's Inventory on Supply Chain Performance," (with A. Jain and H. Mamani), submitted to *POM*
- "Supply Chain Coordination with Multiple Shipments: Subsidizing the Retailer's Inventory," (with Shi Chen and Hau Lee), submitted to *MSOM*



- “A Decentralized Supply Chain Coordination Policy when Demand is Random,”(with Klastorin and Son), working paper
- “An Inventory/Distribution Model with Information Sharing between the Buyer and the Supplier,” (with Y. Bassok), working paper
- “A Cost trade-off Model To Optimize Kitting Location: A Case Study Of Aerospace Industry,” (with Laura Kaegebein, M. Ramulu, and P. Shanahan)
- “Supporting Proofs and Derivations for: Analysis of a Production/Inventory System Subject to Random Disruptions,” (with P. Aggarwal)

### **WORK IN PROGRESS**

- “Supply Chain Models with Reverse Information,” (with A. Jain and H. Mamani)
- “Analysis of Omni-Channel Distribution Systems,” (with E. Jalalipour and Y.P. Zhou)