Curriculum Vitae

Yu-Sheng Zheng

Professor of Operations and Supply Chain Management
Cheung Kong Graduate School of Business

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Education

Ph.D. Management Science, Columbia University, 1987
M.S. Statistics, Columbia University, 1986
M.S. Management, Zhejiang University, 1981
B.S. Mathematics, Fudan University, 1968

Academic Appointments

Professor of Operations Management
 Cheung Kong Graduate School of Business, 2004-present

Visiting Professor of Operations Management
 Cheung Kong Graduate School, Beijing, China, 2002-2003

Professor of Operations and Information Management
 The Wharton School, University of Pennsylvania, 1987-2003

Lecturer of Management Department
 Zhejiang University, China, 1981-1982

Research Interests

Inventory Management
Supply Chain Management
Manufacturing Operations
Service Operations
Yield Management

Professional Services

Associate Editor for *Operations Research*, 1991-2000
Associate Editor for *Management Science*, 1991-2000

Courses Taught

At CKGSB

EMBA: Operations Management (core 2002-)
FMBA: Operations Management (2011-)

At Wahrton

Undergraduate:
  DS 220 Introduction to Management Science
  OPIM 399 Mathematical Models in Financial Applications (elective)

MBA:
  OPIM 631 Operations Management (core I): Quality and Productivity
  OPIM 632 Operations Management (core II): Supply Chain Management
  OPIM 621 Introduction to Management Science (core)
  OPIM 653 Mathematical Models in Financial Applications (elective)
  OPIM 656 Operations Management (elective): Process Analysis
  DS 650 Managerial Decision Analysis (core)
  DS 652 Introduction to Operations Research (core)

PHD:
  OPIM 940 Operations Management
  OPIM 942 Distribution System Seminar
  OPIM 930 Stochastic Processes
  OPIM 989 Seminar of Advanced Topics

Ph.D. Students Supervised, Placement and Dissertation Title:

Fangruo Chen, Columbia University
   Multi-Echelon Stochastic Inventory Systems with Centralized Stock Information,
   1993.

Wen Zhao, University of Illinois at Urbana-Champaign
   Dynamic Models for Yield Management, 1999

Noel Watson, Harvard Business School
   Robust Decentralization of Supply Chains, 2002.

Refereed Journal Papers

1. Y. -S. Zheng and P. Zipkin, "A Queuing Model to Analyze the Value of Centralized Inventory Information." Operations Research, 1990, Vol. 38, 296-307.

2. Y. -S. Zheng and A. Federgruen, "Finding Optimal (s,S) Policies is About as Simple as Evaluating a Single Policy." Operations Research, 1991, Vol. 39, 654-665.

3. Y.-S. Zheng, "A Simple Proof for Optimality of (s,S) Policies in in finite Horizon Inventory Systems." Journal of Applied Probability, 1991, Vol. 28, 802-810.

4. Y.-S. Zheng, "On Properties of Stochastic Inventory Systems." Management Science, 1992, Vol. 38, 87-103.

5. A. Federgruen and Y.-S. Zheng, "The Joint Replenishment Problem with General Joint Cost Structure." Operations Research, 1992, Vol. 40, 384-403.

6. A. Federgruen , M. Queyranne and Y.-S. Zheng, "Simple Power-of-two Policies are Close to Optimal in a General Class of Production/Distribution Networks with General Joint Setup Costs." Mathematics of Operations Research, 1992, Vol. 17, 951-963.

7. Y.-S. Zheng and F. Chen, "Inventory Policies with Quantized Ordering." Naval Research Logistics, 1992, Vol. 39, 285-305.

8. A. Federgruen and Y.-S. Zheng, "An Efficient Algorithm for Computing Optimal (r,Q) Policies in Continuous-Review Stochastic Inventory Systems." Operations Research, 1992, Vol. 40, 808-812.

9. F. Chen and Y.-S. Zheng, "Waiting Time Distribution in (T,S) Inventory Systems." Operations Research Letters, 1992, Vol. 12, 145-151.

10. F. Chen and Y.-S. Zheng, "Inventory Models with General Backorder Costs." European Journal of Operations Research, 1993, Vol. 65, 175-186.

11. F. Federgruen and Y.-S. Zheng, "Optimal Control Policies for Stochastic Inventory Systems with Endogenous Supply." Probability in the Engineering and Informational Sciences, 1993, Vol. 7, 257-272.

12. A. Federgruen and Y.-S. Zheng, "Optimal Power-of-Two Replenishment Strategies in Capacitated General Production/Distribution Networks." Management Science, 1993, Vol. 39, 710-727.

13. Y.-S. Zheng, "Optimal Control Policy for Stochastic Inventory Systems

with Markovian Discount Opportunities." Operations Research, 1994, Vol. 42, 721-738.

14. F. Chen and Y.-S. Zheng, "Evaluating Echelon Stock (R; nQ) Policies in Serial Production/Inventory Systems with Stochastic Demand," 1994, Management Science, Vol. 40,1262-1275.

15. F. Chen and Y.-S. Zheng, "Lower Bounds for Multi-Echelon Stochastic Inventory Systems," Management Science, 1994, Vol.40, 1426-1443.

16. A. Federgruen and Y.-S. Zheng, "Efficient Algorithms for Finding Optimal Power-of-Two Policies for Production/Distribution Systems with General Joint Setup Costs," 1995, Operations Research, Vol. 43, 458-470.

17. F. Chen and Y.-S. Zheng, "One Warehouse Multi-Retailer Systems with Centralized Information," 1997, Operations Research. Vol. 45, 275-287.

18. M. Cohen, Y.-S. Zheng and V. Agrawal, "Service Parts Logistics Benchmark Analysis," 1997, IIE Transactions, Vol. 29, 627-639.

19. F. Chen and Y.-S. Zheng, "Sensitivity Analysis of an (s,S) Policies," 1997, Operations Research Letters, 1997, Vol. 21, 19-23
.
20. F. Chen and Y.-S. Zheng, "Near-Optimal Echelon-Stock (r,nQ) Policies in Multi-Stage Serial Systems," 1998, Operations Research, Vol. 46, 592-602.

21. M. Cohen, Y.-S. Zheng and Y. Wang, "Identifying Improvement Opportunities for a Service Parts Logistics System," 1999, Interfaces, Vol. 29, 1-18.

22. W. Zhao and Y.-S. Zheng, "Optimal Dynamic Pricing for Perishable Assets with General Nonhomogeneous Demand," 2000, Management Science, Vol. 46, 375-388.

23. Y. Wang, M. Cohen and Y.-S. Zheng, "A Two-Echelon Repairable Inventory System with Stocking-Center-Dependent Depot Replenishment Lead Times" 2000, Management Science, Vol. 46, 1441-1453.

24. W. Zhao and Y.-S. Zheng, "A Dynamic Model for Airline Seat Allocation with Passenger Diversion," 2001, Transportation Science, Vol. 35, 80-98.

25. F. Chen, A. Federgruen and Y.-S. Zheng, "Coordination Mechanisms for Decentralized Distribution Systems," 2001, Management Science, Vol. 47, 693-708.

26. M. Fisher, K. Ramdas and Y.-S. Zheng, "Ending Inventory Valuation in Multi-Period Production Scheduling," 2001, Management Science, Vol. 47, 679-692.

27. F. Chen, A. Federgruen and Y.-S. Zheng "Near Optimal Pricing and Replenishment Strategies for a Retail/Distribution System," 2001,

Operations Research, Vol. 49, 839-853.

28. Y. Wang, M. Cohen and Y.-S. Zheng, "Differentiating Parts Replacement Service on the Basis of Delivery Lead-Times," 2002, IIE Transactions, Vol. 34, 979-989.

29. T. Ho and Y.-S. Zheng, "Setting Customer Expectation in Service Delivery: An Integrated Marketing-Operations Perspective," 2004, Management Science, Vol. 50, 479-488

30. N. Watson and Y.-S. Zheng, "A Demand-Focused Decentralization Scheme for Serial Supply Chains," 2005, Manufacturing and Service Operations Management. Vol.7,152-168

Preprints:

1. "Adverse Effects of Over-estimation of the Permanence of New Demand levels: Overreaction To Demand Changes and Improper Forecasting"(with Noel Watson), 2003

2. "Multi-Product Newsboy Model with Partial Postponement" (with N. Rudi), 1997.

3. "A Sensitivity Analysis of Stochastic Inventory Systems" (with X. deGroote), 1993.

Invited Presentations

Over the years, I have been invited to give seminars at many major US universities including Stanford University, Yale University, Columbia University, Massachusetts Institute of Technology, Carnegie Mellon University, University of California, Berkeley, University of California, Los Angeles, University of California, Irvine, Cornell, University of Michigan, Boston University. Georgia Institute of Technology, University of Texas at Austin, University of Illinois, Urbana- Champaign, State University of New York, Stony Brook, Rutgers, the State University of New Jersey. I have also been invited speakers at many international universities such as University of British Columbia in Canada, INSEAD in France, Royal Institute of Technology in Sweden, University of Aahus, Denmark, NORFORMAR Logistics Conference, Norway, Fudan and Tsing Hua in China, Chinese University and Hong Kong University of Science and Technology in Hong Kong, National University of Singapore.