

CURRICULUM VITAE

RICK K. C. SO

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PROFESSIONAL EXPERIENCE

- 1997-present Full Professor
The Paul Merage School of Business, University of California at Irvine
- 2004-2005 Visiting Professor
School of Business, National University of Singapore
- 2001 Visiting Professor
Graduate School of International Management, International University of Japan
- 1996-1998 Professor and Head
Department of Management, Hong Kong Polytechnic University
- 1992-1997 Associate Professor
Graduate School of Management, University of California at Irvine
- 1989-1992 Assistant Professor
Graduate School of Management, University of California at Irvine
- 1985-1989 Member of Technical Staff
AT&T Bell Laboratories, Princeton, New Jersey
- 1983-1984 Research Associate
Electric Power Research Institute, Palo Alto, California

EDUCATION

- 1981-1985 Stanford University, Stanford, California
Ph.D. Operations Research
- 1981-1982 Stanford University, Stanford, California
M.S. Operations Research
- 1978-1981 Roosevelt University, Chicago, Illinois
B.S. Mathematics and Computing and Information Science

GRANTS AND AWARDS

2004-2007	Research Grant (US\$65,000), Hong Kong Research Grant Council
2005-2006	Faculty Research Grant (US\$15,000), National University of Singapore
1996-1998	Research Grant (US\$54,000), Hong Kong Research Grant Council
1996-1998	Research Grant (US\$78,000), Hong Kong Polytechnic University
1995	Corporate Partners Faculty Research Grant (\$10,000), GSM, UC-Irvine
1991	Faculty Research Fellowship (\$10,000), GSM, UC-Irvine
1991	Andersen Consulting Outstanding Faculty Award, GSM, UC-Irvine
1990	Faculty Career Development Grant (\$9,000), UC-Irvine

UNIVERSITY SERVICES

ODT Area Coordinator, The Paul Merage School of Business, UC-Irvine (92-94, 98-99, 06-07)
Master Program Committee, The Paul Merage School of Business, UC-Irvine (06-07)
Member, Univ. Research Committee Evaluation Panel, National Univ. of Singapore (2005)
Member, Department Promotion & Tenure Committee, School of Computing, NUS (2005)
Committee on Undergraduate Scholarships, Honors and Financial Aids (2003-2004)
Undergraduate Program Committee Chair, GSM, UC-Irvine (2001-2004)
Ph.D. Program Director, GSM, UC-Irvine (1993-94, 1999-2000)
Ph.D. Program Committee, GSM, UC-Irvine (1990-96, 1998-2001)
Personnel Committee, GSM, UC-Irvine (1991-92, 1999-2001)
School Representative on Academic Senate (1990-92)
UC-Irvine Council on Planning and Budget (1998-99)
UC-Irvine Committee on Computer Policy (1991-94)
UC-Irvine Manufacturing Extension Program Advisory Board (1993-94)

TEACHING ACTIVITIES

Course Taught

Operations Management (MBA)
Production and Inventory Management (MBA)
Field Projects in Operations Management (MBA)
Statistics for Management (MBA)
Process Management and Modeling (MBA)
Operations IT Lab. (MBA)
Queueing Network Models in Performance Evaluation (Ph.D.)
Doctoral Seminars in Operations and Decision Technologies (Ph.D.)
Supply Chain Management (NUS-Undergraduate)
Analytics for Managers (NUS-MBA)

Doctoral Dissertation Supervision

Kevin Shang - Member, Doctoral Dissertation Committee, 2002.
Yung-Jae Lee - Chair, Doctoral Dissertation Committee, 1998.
Albert Lee - Member, Doctoral Dissertation Committee, 1992.

RESEARCH INTERESTS

Operations Management
Design and Management of Manufacturing and Service Systems
Just-In-Time Production Systems
Time-Based Management
Supply Chain Management
Mathematical Modeling and Operations Research

RESEARCH PUBLICATIONS

1. Manne, A.S., C.R. Nelson, K.C. So and J.P. Weyant, "CPM: A Contingency Planning Model of the International Oil Market," Applications of Management Science, Vol. 4, edited by R.L. Schultz, JAI Press Inc., London, 1-35 (1985).
2. Manne A.S., K.C. So and J. P. Weyant, "OTM: An International Oil Trade Model," Energy Markets in Longer-Term: Planning Under Uncertainty, ed. by A.S. Kydes and D.M. Geraghty, Elsevier Science Publishers B.V., North Holland, 241-244 (1985).
3. So, K.C. and S. C. Pinault, "Allocating Buffer Storages in a Pull System," International Journal of Production Research, **26**, 1959-1980 (1988).
4. So, K.C., "On the Efficiency of Unbalancing a Production Line," International Journal of Production Research, **27**, 717-729 (1989).

So, K.C., "On the Efficiency of Unbalancing a Production Line: A Reply to an Alternate Interpretation," International Journal of Production Research, **28**, 1221-1222 (1990).
5. Federgruen, A. and K.C. So, "Optimal Time To Repair A Broken Server," Advances in Applied Probability, **21**, 376-397 (1989).
6. So, K.C., "Allocating Buffer Storages in a Flexible Manufacturing System," International Journal of Flexible Manufacturing Systems, **1**, 223-237 (1989).
7. Hillier, F.S. and K.C. So, "The Assignment of Extra Servers to Stations in Tandem Queueing Systems with Small or No Buffers," Performance Evaluation, **10**, 219-231 (1989).
8. So, K.C., "Some Heuristics for Scheduling Jobs on Parallel Machines with Setups," Management Science, **36**, 467-475 (1990).
9. Federgruen, A. and K.C. So, "Optimal Maintenance Policies For Single-Server Queueing Systems Subject to Breakdowns," Operations Research, **38**, 330-343 (1990).
10. So, K.C., "The Impact of Buffering Strategies on the Performance of Production Line Systems," International Journal of Production Research, **28**, 2293-2307 (1990).
11. Rajasekera, J.R., M. R. Murr and K.C. So, "A Due-Date Assignment Model for a Flow Shop with Applications in a Lightguide Cable Shop," Journal of Manufacturing Systems, **10**, 1-7 (1991).

12. Hillier, F.S. and K.C. So, "The Effect of the Coefficient of Variation of Operation Times on the Allocation of Storage Space in Production Line Systems," IIE Transaction, **23**, 198-206 (1991).
13. Federgruen, A. and K.C. So, "Optimality of Threshold Policies in Single Server Queueing Systems with Server Vacations," Advances in Applied Probability, **23**, 388-405 (1991).
14. Hillier, F.S. and K.C. So, "The Effect of Machine Breakdowns and Storage Space on the Performance of Production Line Systems," International Journal of Production Research, **29**, 2043-2055 (1991).
15. So, K.C. and K.E. Chin, "Performance Bounds for Multiserver Exponential Tandem Queues with Finite Buffers," European Journal of Operational Research, **63**, 463-477 (1992).
16. So, K.C., "Optimality of Control Limit Policies in Replacement Models," Naval Research Logistics, **39**, 685-697 (1992).
17. Hillier F.S., K.C. So and R.W. Boling "Toward Characterizing the Optimal Allocation of Storage Space in Production Line Systems with Variable Operation Times," Management Science, **39**, 126-133 (1993).
18. Hillier, F.S. and K.C. So, "Some Data for Applying the Bowl Phenomenon to Large Production Line Systems," International Journal of Production Research, **31**, 811-822 (1993).
19. Ladany, S.P. and K.C. So, "Optimal Recycling of Waste Materials in a Plastic Extrusion Production Process," European Journal of Operational Research, **79**, 13-24 (1994).
20. So, K.C. and C.H. Scott, "Optimal Production Sequence for a Product with Matching Components," Operations Research, **42**, 694-708 (1994).
21. Scott, C.H. and K.C. So, "Optimal Allocation of Work Orders in a Multi-Echelon Factory Network," Journal of the Chinese Institute of Industrial Engineers, **11**, 105-110 (1994).
22. So, K.C. and C.S. Tang, "Optimal Operating Policy for a Bottleneck with Random Rework," Management Science, **41**, 620-636 (1995).
23. So, K.C. and C.S. Tang, "Optimal Batch Sizing and Repair Strategies for Operations with Repairable Jobs," Management Science, **41**, 894-908 (1995).
24. Hillier, F.S. and K.C. So, "On the Optimal Design of Tandem Queueing Systems with Finite Buffers," Queueing Systems, **21**, 245-266 (1995).
25. Hillier, F.S. and K.C. So, "On the Simultaneous Optimization of Server and Work Allocations in Production Line Systems with Variable Processing Times," Operations Research, **44**, 435-443 (1996).
26. Hillier, F.S. and K.C. So, "On the Robustness of the Bowl Phenomenon," European Journal of Operational Research, **89**, 496-515 (1996).
27. So, K.C. and C.S. Tang, "Operational Strategies for Managing Congestion in Service Systems," European Journal of Operational Research, **92**, 83-98 (1996).

28. So, K.C., "Optimal Buffer Allocation Strategy for Minimizing Work-In-Process Inventory in Unpaced Production Lines," IIE Transactions, **29(1)**, 81-88 (1997).
29. So, K.C. and J.S. Song, "Price, Delivery Time Guarantees and Capacity Selection," European Journal of Operational Research, **111(1)**, 28-49 (1998).
30. Lee, H.L., K.C. So and C.S. Tang, "The Value of Information Sharing in a Two-Level Supply Chain," Management Science, **46**, 626-643 (2000).
31. So, K.C. and C.S. Tang, "Modeling the Impact of an Outcome Oriented Reimbursement Policy on Clinics, Patients, and Pharmaceutical Firms," Management Science, **46**, 875-892 (2000).
32. So, K.C. "Price and Time Competition for Service Delivery," Manufacturing and Services Operations Management, **2(4)**, 392-409 (2000).
33. So, K.C., C.S. Tang, and R. Zavala, "Models for Improving Team Productivity at the Federal Reserve Bank," Interfaces, **33(2)**, 25-36 (2003).
34. So, K.C. and X. Zheng, "Impact of Supplier's Lead Time and Forecast Demand Updating on Retailer's Order Quantity Variability in a Two-Level Supply Chain," International Journal of Production Economics, **86**, 169-179 (2003).
35. Hsu, V.N., C.Y. Lee and K.C. So, "Optimal Component Stocking Policy for Assemble-To-Order Systems with Leadtime-Dependent Component and Product Pricing," Management Science, **52**, 337-351 (2006).
36. Byers, R. and K.C. So, "A Mathematical Model for Evaluating Cross-sales Policies in Telephone Service Centers." Manufacturing and Service Operations Management, **9(1)**, 1-8 (2007).
37. Takezawa, N., J.R. Rajasekera and K.C. So, "Risk Hedging Through Forward Supply Contract and Equity Ownership in a Spin-Off Decision." International Journal of Production Economics, **106**, 532-543 (2007).
38. Hsu, V.N., C.Y. Lee and K.C. So, "Managing Component for Assemble-To-Order Products with Leadtime-Dependent Pricing: The Full-Shipment Model." Naval Research Logistics, **54**, 510-523 (2007).

PROFESSIONAL ACTIVITIES

Professional Affiliations

Full Member, The Institute for Operations Research and Management Science (INFORMS)
Member, Production and Operations Management Society (POMS)

Professional Services

Senior Editor, Production and Operations Management, 2004 – present
Associate Editor, Naval Research Logistics, 2000 – present
Associate Editor, IIE Transactions, 1993-1997
Research Panel Member, Hong Kong Research Grant Council, 1996-2001

External Examiner, Department of Industrial Engineering and Engineering Management, Hong Kong University of Science and Technology, 1999

External Examiner, Department of Management Science, University of Waterloo, 2001

Chair, George Dantzig Dissertation Award Committee, 1995

Ad-hoc reviewer for numerous academic journals, book publishers, and grant agencies