

Pengfei Guo

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Education

- 2007, Ph.D. in Business Administration, Duke University. Thesis: Analysis and comparison of queues with different levels of delay information. Advisor: Professor Paul Zipkin
- 2000, M.S. in Management Science & Engineering, Shanghai Jiao Tong University
- 1997, B.Eng. in Management Information System, Xi'an Jiao Tong University

Research Interests

Supply chain management, service management, health care management

Publications

Papers Published

1. [Guo, P.](#) and [P. Zipkin](#). 2007. Analysis and comparison of queues with different levels of delay information. *Management Science* 53, 962-970.
2. [Guo, P.](#) and [P. Zipkin](#). 2008. The effects of information on a queue with balking and phase-type service times, *Naval Research Logistics*, 55, 406-411.
3. [Guo, P.](#) and [P. Zipkin](#). 2009. The effects of the availability of waiting-time information on a balking queue, *European Journal of Operations Research*, 198, 199-209.
4. [Guo, P.](#) and [P. Zipkin](#). 2009. The impacts of customers' delay-risk sensitivities on a queue with balking, *Probability in the Engineering and Informational Sciences*, 23, 409-432.
5. [Guo, P.](#), J.J. Liu, [Y. Wang](#). 2009. Intertemporal service pricing with strategic customers. *Operations Research Letters*, 37, 420-424.
6. [Guo, P.](#), [J. Song](#) and [Y. Wang](#). 2010. Information flow and outsourcing structure in a three-tier supply chain. *International Journal of Production Economics*, 128 175-187.
7. [Guo, P.](#), [Z. Lian](#) and [Y. Wang](#). 2011. Pricing perishable products with compound Poisson demand. *Probability in the Engineering and Informational Sciences*, 25, 289-306.
8. [Guo, P.](#) and [R. Hassin](#). 2011. Strategic behavior and social optimization in Markovian vacation queues. *Operations Research* 59 986-997.
9. [Guo, P.](#), W. Sun and [Y. Wang](#). 2011. Equilibrium and optimal strategies to join a queue with partial information on service times. *European Journal of Operations Research*, 214 284-297.
10. [Guo, P.](#) and [R. Hassin](#). 2012. Strategic behavior and social optimization in Markovian vacation queues: The case of heterogeneous customers. **Accepted**, *European Journal of Operations Research*
11. [Wang Y.](#), [B. Niu](#) and [P. Guo](#). 2012. Quantity leadership when an OEM outsources to a competitive CM. **Accepted**, *Production and Operations Management*.
12. [Wang, Y.](#), [B. Niu](#) and [P. Guo](#). 2012. The comparison of two vertical outsourcing structures under push and pull contracts. **Accepted**, *Production and Operations Management*.
13. [Guo, P.](#) and [G. Zhang](#). 2012. Information and pricing in a service system with congestion-based-staffing policy. **Accepted**, *Manufacturing & Service Operations Management*.

Papers Submitted

14. [Guo, P.](#) and [R. Hassin](#). 2008. First- and second-mover advantage and price leadership in service competition.
15. [Guo, P.](#) and [R. Hassin](#). 2012. [Equilibrium and optimal strategies for placing duplicate orders in queues](#).
16. [Guo, P.](#) and [A. Qian](#). 2012. Efficiency of subsidy schemes to reduce waiting times for public health systems.
17. [Guo, P.](#), [R. Lindsey](#) and [G. Zhang](#). Pricing and capacity decisions for a regulated service provider in two-tier public service systems.

18. [Y. Wang](#) , [P. Guo](#), [B. Niu](#) and [J. Song](#). 2010. Bilateral bargaining and procurement strategies in a three-tier supply chain.

Work in progress

19. [A. Bensoussan](#), [Guo, P.](#) and [Y. Wang](#). Inventory control on storable goods with Bayesian learning.
20. [F. Bernstein](#) and [Guo, P.](#) Managing short-life-cycle inventories with finer information updating.
21. Q. Li, [Q. Ding](#), [P. Guo](#) and [C-L. Li](#). Optimality of (s, S) policy with partial backlogging.

Teaching Interests

Operations management, supply chain management, statistics and decision science, stochastic processes

Courses Taught

1. *Operations Management* for undergraduate students (core course)
2. *Operations Management* for MBA students
3. *Statistics and Game Theoretical Methods for Business Analysis and Decision* for postgraduate students
4. *Methodologies for Business Decisions* for DBA students
5. *Stochastic Models and Decision under Uncertainty* for Ph.D. students

Service

Referees for *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Production and Operations Management*, *European Journal of Operational Research*, *Naval Research Logistics*, *International Journal of Production Economics*, *Queueing Systems* etc.

Judge of the Best Student Paper Competition, *2011 The second POMS- Hong Kong International Conference*

Student Supervised/being supervised:

1. Niu, Baozhuang (Ph.D, completed)
 - Thesis: Essays on Contract Manufacturing
 - Placement: Lingnan School, Tsun Yat-Sen University
 - Second prize winner of the best student paper competition on the second POMS-Hong Kong International Conference, for the paper “Comparison of Two Vertical Outsourcing Structures under Push, Pull and Two-wholesale-Price Contract”.
2. Qingying Li (Ph.D., on-going)
 - Thesis: Essays on Inventory Management

Important Conference Presentations

1. The 2009 MSOM Service Special Interest Group meetings. Title of the talk: Strategic behavior and social optimization in Markovian vacation queues, MIT, USA. June 2009
 2. The 2010 MSOM Service Special Interest Group meetings. Title of the talk: On the advantage of first-mover advantage in pricing competition between two servers, Haifa, Israel. June 2010
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