

Bariş Ata

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EDUCATION

Ph.D., Graduate School of Business, Stanford University, California.	2003
M.S., Statistics, Stanford University, California.	2002
M.S., Mathematics, Stanford University, California.	2001
M.S., Business Research, Stanford University, California.	2000
M.S., Engineering Economic Systems & Operations Research, Stanford University, California.	1999
B.S., Industrial Engineering, Bilkent University, Ankara, Turkey.	1997

EMPLOYMENT

Associate Professor (with tenure), Kellogg School of Management, Northwestern University	December 2008-
Associate Professor (without tenure), Kellogg School of Management, Northwestern University	2007-2008
Assistant Professor, Kellogg School of Management, Northwestern University.	2003-2007
Associate, McKinsey & Company, Istanbul, Turkey	2001

RESEARCH INTERESTS

- Capacity Management in Manufacturing & Service Operations Management
- (Economics of) Demand Management
- Health Care Management
- Sustainable Operations

PUBLICATIONS

- Heavy traffic analysis of open processing systems with complete resource pooling: Asymptotic optimality of discrete review policies, *Annals of Applied Probability*, **15**(1A) 331-391, **2005**. With S. Kumar.
- Drift rate control of a Brownian processing system, *Annals of Applied Probability* **15**(2) 1145-1160, **2005**. With J.M. Harrison and L.A. Shepp.
- Dynamic power control in a wireless static channel subject to a quality of service constraint, *Operations Research*, **53**(5) 842-851, **2005**.
- Adaptive training and data power allocation for fading downlink channels with feedback, *Proceedings of IEEE International Symposium on Information Theory (ISIT)*, Seattle, WA, **July, 2006**. With M. Agarwal and M. Honig.
- Dynamic control of a multiclass queue with thin arrival streams, *Operations Research*, **54**(5) 876-892, **2006**.
- Dynamic control of an M/M/1 Service System with Adjustable Arrival and Service Rates, *Management Science*, **52**(11) 1778-1791, **2006**. With S. Shneerson.
- Dynamic Power Control in a fading downlink channel subject to an energy constraint, *Queueing Systems*, **55**(1) 41-69, **2007**. With K. E. Zachariadis.

- Dynamic control of a make-to-order parallel-server system with cancellations, *Operations Research*, in press, With M.A. Rubino.
- Near-optimal dynamic leadtime quotation and scheduling under convex-concave customer delay costs, *Operations Research*, in press. With T. Olsen.
- Heavy traffic analysis of maximum pressure policies for stochastic processing networks with multiple bottlenecks, *Queueing Systems*, in press. With W. Lin.
- The value of partial resource pooling: Should a service network be integrated or product-focused? *Management Science*, in press, With J. A. Van Mieghem.
- Bid-price controls for Network Revenue Management: Martingale characterization of optimal bid prices. *Mathematics of Operations Research*, conditionally accepted. With M. Akan.

SAMPLE WORKING PAPERS

- On bid-price controls for network revenue management. With M. Akan.
- Optimizing liver allocation system incorporating disease evolution. With M. Akan, O.Alagoz, F.S. Erenay.
- Revenue management by sequential screening. With M. Akan and J. Dana.

SERVICE TO THE PROFESSION

Editorial Positions: Associate Editor of *Management Science* and *Manufacturing & Service Operations Management*

Committees:	Council Member of the Applied Probability Society of INFORMS	2008-2010
	Co-chair of the INFORMS Revenue Management Conference	2009
	Cluster Chair for Applied Probability, Annual INFORMS Conference	2008
	Cluster Chair for Revenue Management, Annual INFORMS Conference	2006
	M&SOM Conference Organizing Committee Member	2005

PHD STUDENTS

- Principal Advisor of Mustafa Akan (2008). "Essays in Revenue Management". Now Assistant Professor at Tepper School of Business, Carnegie-Mellon University.
- Co-advisor of Konstantinos Zachariadis (2008). "Efficiency of Financial Markets with Sophisticated, Symmetrically-Informed Traders". Now Assistant Professor in the Finance Department of London School of Economics.

HONORS/AWARDS, FELLOWSHIPS

Supervised thesis of Mustafa Akan, received The Best Dissertation on Aviation Applications Award, 2008
Supervised research of Mustafa Akan, received honorable mention in M&SOM Student Paper Competition, 2008
Supervised research of Mustafa Akan, received honorable mention in Nicholson Student Paper Competition, 2006
Operations Research Meritorious Service Award, 2003.
Jaedicke Merit Scholar Award, Graduate School of Business, Stanford University, 1998-2000 (received twice).
TUBITAK (Turkish Scientific and Technical Research Council) Travel Fellowship, 1997.
Ranked 10th in the University Entrance Examination in Turkey, 1992

RESEARCH GRANTS

Motorola research grant, (\$90,000), 2004-2007
"Stochastic Models of Downlink Scheduling in Wireless Communication"