

BURHANEDDİN (BURHAN) SANDIKÇI

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EDUCATION

- Aug 2008** Ph.D. in Industrial Engineering, University of Pittsburgh, Pittsburgh, PA
Dissertation title: "*Estimating the price of privacy in liver transplantation*"
- May 2003** M.S. in Operations Research, University of North Carolina, Chapel Hill, NC
- Aug 2001** M.S. in Industrial Engineering, Bilkent University, Ankara, TURKEY
- Jun 1999** B.S. in Industrial Engineering, Marmara University, Istanbul TURKEY

EMPLOYMENT

- Aug 2008 - present** *Assistant Professor of Operations Management*
The University of Chicago Booth School of Business
- Jun 2004 - Aug 2008** *Research/Teaching Assistant*
University of Pittsburgh, Department of Industrial Engineering
- Aug 2001 - Dec 2003** *Teaching Assistant*
University of North Carolina at Chapel Hill, Department of Operations Research
- Sep 1999 - Aug 2001** *Research/Teaching Assistant*
Bilkent University, Department of Industrial Engineering
- Sep 1998 - Jun 1999** *Student Assistant*
Marmara University, Department of Industrial Engineering
- Jul 1998 - Sep 1998** *Summer Intern*
Arçelik, R&D Department
- Jul 1997 - Sep 1997** *Summer Intern*
Biat Möble, Quality Control Department

RESEARCH INTERESTS

- Broad description** Decision making under uncertainty
- Methodology** Markov decision processes (MDPs), partially observed MDPs, stochastic games, stochastic programming, simulation
- Applications** Medical decision making, healthcare operations, therapeutic optimization, service operations, retail operations, value of information

AWARDS & HONORS

May 2009	Pritsker Doctoral Dissertation Award, 3rd place (given by the Institute of Industrial Engineering (IIE) to recognize the best dissertation research in industrial engineering)
Jul 2008	GençRidef Honorary Prize (given by the Rize Dernekleri Federasyonu (United Federation of Rize Associations) to recognize the most outstanding young individual from Rize, Turkey)
Mar 2008	Outstanding Graduate Research Assistant University of Pittsburgh, Swanson School of Engineering
Jan 2008	Travel grant, NSF CMMI Research and Innovation Conference
Nov 2007	INFORMS Bonder Scholarship for Applied Operations Research in Health Services (one award given per year to support the development of highly qualified individual)
Nov 2007	Honorable mention, INFORMS Decision Analysis Society Student Paper Competition
Nov 2007	Selected for the INFORMS Future Academician Colloquium
Jun 1999	Best graduation thesis award Marmara University, Department of Industrial Engineering

REFEREED PUBLICATIONS

1. **B. Sandıkçı** (2009). "Reduction of a POMDP to an MDP," to appear in *Wiley Encyclopedia of Operations Research and Management Science*.
2. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, O. Alagoz, and M.S. Roberts (2008) "Estimating the patient's price of privacy in liver transplantation," *Operations Research* **56**(6), 1393-1410.
3. **B. Sandıkçı** and I. Sabuncuoglu (2006). "Analysis of the behavior of the transient period in nonterminating simulations," *European Journal of Operational Research*, **173**(1), 252-267.
4. **B. Sandıkçı** and I. Sabuncuoglu (2005). "Warm-up period behavior in steady-state simulations," in *Proceedings of the 35th International conference on Computers and Industrial Engineering*, pp.1681-1686.

PAPERS SUBMITTED FOR PUBLICATION

5. **B. Sandıkçı**, N. Kong, and A.J. Schaefer. "A hierarchy of bounds for stochastic mixed-integer programs." Submitted to *Mathematical Programming*.

WORKING PAPERS

6. M.S. Roberts, O. Alagoz, C. Bryce, J. Chang, M. Demirci, L.M. Maillart, S.N. Proon, **B. Sandıkçı**, and A.J. Schaefer. "The timing of living-donor liver transplants in the United States."
7. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, and M.S. Roberts. "Alleviating the patient's price of privacy through a partially observed model of the liver transplant waiting list."

REFEREED CONFERENCE ABSTRACTS/PRESENTATIONS

1. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, and M.S. Roberts (2009). "A partially observable model for the liver transplant waiting list," *POMS 2009 Annual Meeting*, Orlando FL, May 1-4.
2. **B. Sandıkçı**, S.N. Proon, A.J. Schaefer, and M.S. Roberts (2008). "Are living-donor liver transplants timed to maximize life expectancy?" *The 30th Annual Meeting of the Society for Medical Decision Making*, Philadelphia PA, October 19-22.
3. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, O. Alagoz, and M.S. Roberts (2008). "Estimating the patient's price of privacy in liver transplantation," *NSF Research and Innovation Conference*, Knoxville TN, January 7-10.
4. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, O. Alagoz, and M.S. Roberts (2007). "Estimating the patient's price of privacy in liver transplantation," *The 29th Annual Meeting of the Society for Medical Decision Making*, Pittsburgh PA, October 20-24.
5. **B. Sandıkçı**, L.M. Maillart, A.J. Schaefer, O. Alagoz, and M.S. Roberts (2007). "Estimating the patient's price of privacy in liver transplantation," *Operations Research in Healthcare Conference*, Massachusetts Institute of Technology, Boston MA, May 22-23.
6. **B. Sandıkçı**, O. Alagoz, L.M. Maillart, A.J. Schaefer, and M.S. Roberts (2006). "Using the waiting list information to optimize the timing of liver transplantation," *The 28th Annual Meeting of the Society for Medical Decision Making*, Boston MA, October 15-18.
7. **B. Sandıkçı**, O. Alagoz, L.M. Maillart, A.J. Schaefer, and M.S. Roberts (2006). "Using the waiting list information to optimize the timing of liver transplantation," *IIE Research Conference (IERC)*, Orlando FL, May 20-24.

INVITED TALKS

Nov 2008	University of Chicago, Health Economics Workshop.
Mar 2008	University of Michigan, Department of Industrial & Operations Engineering.
Feb 2008	Stanford University, School of Medicine.
Jan 2008	University of Chicago, Graduate School of Business, Operations Workshop.
Jan 2008	University of Waterloo, Department of Management Sciences.
Jan 2008	University of Western Ontario, Ivey School of Business.
Mar 2007	Boğaziçi University, Department of Industrial Engineering.
Feb 2006	INFORMS Optimization Society Conference, San Antonio TX.
2004 - 2009	INFORMS Annual Meetings (Denver CO; San Francisco CA; Pittsburgh PA; Seattle WA; Washington DC; San Diego CA)

TEACHING

University of Chicago

36106: Managerial Decision Modeling
(Winter 2009, Summer 2009; also scheduled for Spring 2010 and Summer 2010)

University of Pittsburgh

ENGR 20: Probability and Statistics for Engineers I
(Summer 2007)

IE 3077: Therapeutic Optimization
(Guest Lecturer for 2 lectures)

IE 3093: Stochastic Programming
(Guest Lecturer for 2 lectures)

IE 3098: Advanced Topics in Markov Decision Processes
(Guest Lecturer for 2 lectures)

CLRES 2121: Clinical Decision Analysis
(Guest Lecturer for 1 lecture)

University of North Carolina at Chapel Hill

BA 24: Introduction to Management Science
(Spring 2003)

MATH 22: Calculus for Business and Economics
(Spring 2002, Fall 2003)

MATH 30: Trigonometry and Analytic Geometry
(Fall 2002)

MEMBERSHIPS

INFORMS (The Institute For Operations Research and the Management Sciences)
SMDM (Society for Medical Decision Making)
IIE (Institute of Industrial Engineers)

OTHER INTERESTS

Family, traveling to historical sites, TaeKwonDo, soccer, NFL, NBA.

REFERENCES

Available upon request