

Navid Sabbaghi

nsabbagh@iit.edu – 565 W. Adams Street, Chicago, IL 60661

- Academic Affiliation* **ILLINOIS INSTITUTE OF TECHNOLOGY** Chicago, IL
Assistant Professor of Management Science, Stuart School of Business Aug.'08-now
Research interests include energy & emissions management, green supply chain management, and sustainable operations using analytical tools from Operations Research. Teaching: PhD courses on optimization and a MBA course on modeling.
- Education* **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA
Ph.D., Electrical Engineering and Computer Science 2008
Research: supply contracts and capacity pricing in supply chain management. Pre-thesis coursework in Operations Research, AI, Game Theory, Contract Theory, Organizational Econ., Incentive Design, Pricing & Supply Chain. GPA: 4.8 / 5.0.
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA
M.S., Electrical Engineering and Computer Science 2001
Research: Designed algorithms to efficiently solve a class of estimation problems applicable to signature verification. Investigated assumptions and discovered phase transitions affecting the algorithm's computational complexity. GPA: 5.0 / 5.0.
- UNIVERSITY OF CALIFORNIA, BERKELEY** Berkeley, CA
B.S., Electrical Engineering and Computer Science 1998
B.A., Mathematics
Summa Cum Laude.
Research: Implemented morphological image processing using cellular neural networks. Extensive coursework in Algorithms and Probability. GPA: 3.93 / 4.0.
- Fellowships* Awarded MIT and National Science Foundation Graduate Student Fellowships.
- Teaching Experience* **Illinois Institute of Technology** Chicago, IL, 2008-now
Fall 2008: Nonlinear Optimization (PhD), Models for Decision Making (MBA).
Spring 2009: Linear Optimization & Integer Programming (PhD).
Fall 2009: Dynamic Optimization (PhD), Models for Decision Making (MBA).
Spring 2010 (tentative): Linear Optimization (PhD), Emissions Management I.
Summer 2010 (not confirmed): Sustainability IPRO, Emissions Management II.
- Massachusetts Institute of Technology** Cambridge, MA, 2001-03
Teaching assistant for "Communications, Control, and Signal Processing" for three semesters. Recitation instructor for "Probabilistic Systems Analysis". Rated highly.
- UC Berkeley** Berkeley, CA, 1997
Recitation instructor for electrical engineering course: "Circuits and Systems".
Rated highly for intuitive style despite the usual 'fear factor' students usually face.
- Cultural Training* **MIT International Science and Technology Initiative** Cambridge, MA 2001-03
Received intensive cultural/language training for educational collaborations abroad.
- Professional Experience* **Dresdner Kleinwort Wasserstein** London, UK, 2001
Joined bandwidth trading and advisory desk aiming to trade bandwidth derivatives. Researched traffic and topology of networks to devise valuation techniques. Worked on restructuring projects, PSInet. Advised fund on technology investments.
- NASA Goddard Space Flight Center** Greenbelt, MD, 1996
Headed development of generalized satellite virtual environment system. Enabled operations personnel to better visualize spacecraft's state in mission critical situations. Reduced error in decision making for operations personnel.

Center for Extreme Ultraviolet Astrophysics Berkeley, CA, 1995-97
 Surveyed technologies and automated operations for NASA's Extreme Ultraviolet Explorer (EUVE) satellite. Worked with team at NASA Ames Research Center to develop a EUVE Virtual Reality Environment which enabled operations personnel to better visualize critical-state information. Reduced chance for costly human error.

Professional Developmt. EPA Workshop: Market Mechanisms for Environ. Policy Washington, DC, 2009
 Westminster Energy, Environment & Transport Forum London, UK, 2009
 Ethical Corp's 2nd Annual Green Supply Chain Summit London, UK, 2009
 Carbon TradeEx America Conference Washington, DC, 2009
 Inst. for Operations Research and the Mgmt. Sciences Annual Mtgs.2008,2007,2006
 POMS Annual Conferences 2006,2003
 International Atlantic Economic Society's 55th Conference Vienna, Austria, 2003
 Intl. Conference on Global Supply Chain Management Beijing, China, 2002
 15th Intl. Symp., Mathematical Theory of Networks & Systems Notre Dame, IN,'02
 51st Internet Engineering Task Force Meeting London, UK, 2001
 Market Managed Multi-service Internet Workshop on Modeling London, UK, 2001
 34th London Internet Exchange meeting London, UK, 2001

Selected Publications:

N. Sabbaghi, Y. Sheffi, J.N.Tsitsiklis. "Pull Competition and Push Competition.",in prep.(ip)
 N. Sabbaghi, Y. Sheffi, J.N.Tsitsiklis. "Supplier Competition and the Value of Capacity.",ip.
 N. Sabbaghi, Y. Sheffi, J.N.Tsitsiklis. "Wholesale Price Contracts and Allocational Flexibility."
 & "Coordinating a Constrained Channel." Revise & resubmit.
 N. Sabbaghi. "Coordination and Competition in Resource-Constrained Channels." Doctoral
 Thesis, Massachusetts Institute of Technology, July 2008.
 A. Sabbaghi, N. Sabbaghi. "Global Supply Chain Strategy and Global Competitiveness."
 International Business and Economics Research Journal, pp. 63-77, July 2004.
 N. Sabbaghi. "A Bayesian Framework for Tracking." Master's Thesis, MIT, March 2001.
 N. Sabbaghi. "Overcoming the Constraints on Modeling Telemetry in VR Systems." Proceedings,
 Intl. Telemetering 32nd Annual Conf., pp.673-80, October 1996. Won \$1000 best paper award.
 L. Wong, M. Lewis, N. Sabbaghi, et. al. "Development of an EUVE Virtual Environment System
 for Satellite Anomaly Resolution and Science Planning in Operations." Proceedings, International
 Telemetering 32nd Annual Conference, pp.663-72, October 1996.
 D. Korsmeyer, T. Morgan, N. Sabbaghi. "EVE, An Interactive Virtual Operations Tool for the
 Extreme Ultraviolet Explorer." Presented at 6th AAS/AIAA Space flight Mechanics Mtg, Feb.'96.