Anant Balakrishnan

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EDUCATION

- Ph.D., Sloan School of Management, Massachusetts Institute of Technology, Cambridge, 1985
- Post-graduate Diploma in Management (MBA), Indian Institute of Management, Ahmedabad, 1978
- Bachelor of Technology (Electronics Engineering), Indian Institute of Technology, Madras, 1976

ACADEMIC APPOINTMENTS

- Associate Dean for Research, McCombs School of Business, The University of Texas at Austin (2004–2011)
- Kenneth M. and Susan T. Jastrow II Chair in Business, McCombs School of Business, The University of Texas at Austin (2005–present)
- Red McCombs Endowed Chair in Business, McCombs School of Business, The University of Texas at Austin (2002–05)
- Smeal Chaired Professor of Management Science & Information Systems, Smeal College of Business, The Pennsylvania State University (1996–2002)
- Associate Professor/Assistant Professor, Sloan School of Management, MIT (1988–95)
- Assistant Professor, Krannert Graduate School of Management, Purdue University (1985–88)
- Research Associate, Indian Institute of Management, Ahmedabad (1979–80)

AWARDS

- *Wickham Skinner Best Published Paper Award*, Production and Operations Management Society, 2011
- *Best paper award*, Telecommunications Section, INFORMS National Meeting, San Jose, California, 2002
- *Research Fellow*, eBusiness Research Center, Penn State University, 2001–02
- *Salgo Noren Outstanding MBA Teaching Award*, Krannert Graduate School of Management, Purdue University, 1988
- *Transportation Science Best Dissertation Prize*, Operations Research Society of America, 1985
- *Zenon and Clotilde Zannetos Dissertation Prize*, Sloan School of Management, MIT, 1985
- *Institute Gold Medal*, Indian Institute of Management, Ahmedabad, 1978
- *Air India Scholarship*, Indian Institute of Management, Ahmedabad, 1977, 1978

PRIMARY RESEARCH AREAS

- Operations planning and scheduling
- Logistics and distribution management
- Supply chain design and coordination
- Telecommunications network planning and optimization
- Network optimization and integer programming

PAPERS UNDER REVIEW OR REVISION

- Balakrishnan, and H. P. Natarajan, "Integrated Procurement Planning in Multi-division Firms", under second review for *Production and Operations Management*

- Balakrishnan, A., S. Sundaresan, and B. Zhang, "Browse-and-Switch: Retail-Online Competition under Value Uncertainty," under second revision for *Production and Operations Management*

- Balakrishnan, A., A. Kuo, and X. Si, "Real-Time Decision Support for Crew Assignment in Double-Ended Districts for Freight Railways" under review for *Transportation Science*

  (An earlier version this paper was chosen as the winner of the research paper competition conducted by the Railway Applications Section of INFORMS, 2012)

PAPERS UNDER PREPARATION

- "Delivery Fee Design" (with H. Natarajan)

- "Optimization-based Approach for Train Dispatching" (with S. Lin and A. Uygur)

- "Designing Networks with Route Service Guarantees" (with P. Mirchandani and G. Li)

- "Optimizing Materials Supply and Full-load Delivery Operations," (with X. Pan and B. Roth)

- "Capacitated Trip Planning with Transshipment Handling Policies" (with C. Mohapatra and B. Roth)

- "Project Resource Planning with Activity Coordination Requirements" (with G. Li and B. Roth)

REFEREED PUBLICATIONS

Balakrishnan, A., M. Banciu, K. Glowacka, and P. Mirchandani, "Hierarchical Approach for Survivable Network Design," to appear in ***European Journal of Operational Research*** (2012)

Akcay, Y., A. Balakrishnan, and S. Xu. 2010. "Dynamic Assignment of Flexible Service Resources," ***Production and Operations Management***, Vol. 19, No. 3, pp. 279-304.

(Winner of the *Wickham Skinner Best Published Paper Award*, Production and Operations Management Society, 2011)

Balakrishnan, A., P. Mirchandani, and H. Natarajan. 2009. "Connectivity Upgrade Models for Survivable Network Design," ***Operations Research***, Vol. 57, pp. 170-186.

Balakrishnan, A., P. Mirchandani, and H. Natarajan. 2009. Electronic Companion to "Connectivity Upgrade Models for Survivable Network Design," *Operations Research*, http://or.journal.informs.org/cgi/data/57/1/170/DC1/1, 11 pages.

Balakrishnan, A., M. S. Pangburn, and E. Stavrulaki. 2008. "Integrating the Promotional and Service Roles of Inventories," ***Manufacturing & Service Operations Management***, Vol. 10, No. 2, pp. 218-235.

Balakrishnan, A., M. S. Pangburn, and E. Stavrulaki. 2004. "Stack them high, Let 'em fly: Lot-sizing Policies when Inventories Stimulate Demand," ***Management Science***, Vol. 50, No. 5, pp. 630-644.

Balakrishnan, A., and J. Geunes. 2004. "Collaboration and Coordination in Supply Chain Management and E-Commerce," Introduction, ***Production and Operations Management*** special issue, Vol. 13, No. 1, pp. 1-2.

Balakrishnan, A., J. Geunes, and M. S. Pangburn. 2004. "Coordinating Supply Chains by Controlling Upstream Variability Propagation," ***Manufacturing & Service Operations Management***, Vol. 6, No. 2, pp. 163-183.

Akcay, Y., A. Balakrishnan, and S. Xu. 2004. "Scheduling of Flexible Resources in Professional Services Firms," *Handbook on Scheduling: Algorithms, Models, and Performance Analysis*, J. Y-T. Leung (ed.), CRC Press.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 2004. "Connectivity-Splitting Models for Survivable Network Design," ***Networks***, Vol. 43, No. 1, pp. 10-27.

Rangaswamy, A., N. I. Shaikh, and A. Balakrishnan. 2003. "Small-World Markets and Their Use in Forecasting the Sales of New Products," in *Management of Research and Development in the New Millennium*, Macmillan, pp. 359-366.

Balakrishnan, A., and J. Geunes. 2003. "Production Planning with Flexible Product Specifications: An Application to Specialty Steel Manufacturing," ***Operations Research***, Vol. 51, No. 1, pp. 94-112.

Rangaswamy, A., and A. Balakrishnan. 2003. "From Many to One: Personalized Product Fulfillment Systems," in *The Power of One: Gaining Business Value from Personalization Technologies*, eBRC Press, pp. 33-57.

Balakrishnan, A., T. L. Magnanti, J. Sokol, and Y. Wang. 2002. "Spare Capacity Assignment for Line Restoration Using a Single Facility Type," ***Operations Research***, Vol. 50, No. 4, pp. 617-635.

Balakrishnan, A., J. Geunes, and M. S. Pangburn. 2002. "Coordinating the Distribution Chain: New Models for New Challenges," in *Supply Chain Management: Models, Applications, and Research Directions*, Kluwer Academic Publishers, pp. 199-242.

Balakrishnan, A., T. L. Magnanti, J. Sokol, and Y. Wang. 2001. "Telecommunication Link Restoration Planning with Multiple Facility Types," ***Annals of Operations Research***, Vol. 106, pp. 127-154.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 2001. "Intuitive Solution-Doubling Techniques for Worst-case Analysis of Some Survivable Network Design Problems," ***Operations Research Letters***, Vol. 29, No. 3, pp. 99-106.

Balakrishnan, A., H. P. Natarajan, and M. S. Pangburn. 2000. "Optimizing Delivery Fees for a Network of Distributors," ***Manufacturing & Service Operations Management***, Vol. 2, No. 3, pp. 297-316.

Balakrishnan, A., and J. Geunes. 2000. "Requirements Planning with Substitutions: Exploiting Bill-of-Materials Flexibility in Production Planning," ***Manufacturing & Service Operations Management***, Vol. 2, No. 2, pp. 166-185.

Balakrishnan, A., S. R. T. Kumara, and S. Sundaresan. 1999. "Manufacturing in the Digital Age: Exploiting Information Technologies for Product Realization," ***Information Systems Frontiers***, Vol. 1, No. 1, pp. 25-50.

Balakrishnan, A., and T. Semmelbauer. 1999. "Circuit Diagnosis Support System for Electronics Assembly Operations," ***Decision Support Systems***, Vol. 25, pp. 251-269.

Balakrishnan, A., and F. Vanderbeck. 1999. "A Tactical Planning Model for Mixed-model Electronics Assembly Operations," ***Operations Research***, Vol. 47, No. 3, pp. 395-409.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1998. "Designing Hierarchical Survivable Networks," ***Operations Research***, Vol. 46, No. 1, pp. 116-136.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1997. "Network Design," in *Annotated Bibliographies in Combinatorial Optimization*, M. Dell 'Amico, F. Maffioli, and S. Martello (eds.), John Wiley, pp. 311-334.

Aman, A., A. Balakrishnan, and V. Chandru. 1997. "On-line Maintenance of Optimal Machine Schedules," ***Sadhana***, Indian Academy of Sciences, Vol. 22, Part 2, pp. 257-279.

Balakrishnan, A., and S. Gopalakrishnan. 1996. "Selecting Ingot Sizes for Joint Production of Sheet Products," ***INFORMS Journal on Computing***, Vol. 8, No. 3, pp. 260-273.

Balakrishnan, A., R. L. Francis, and S. J. Grotzinger. 1996. "Bottleneck Resource Allocation in Manufacturing," ***Management Science***, Vol. 42, No. 11, pp. 1611-1625.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1996. "Heuristics, LPs, and Trees on Trees: Network Design Analyses," ***Operations Research***, Vol. 44, No. 3, pp. 478-496.

Balakrishnan, A., and S. Brown. 1996. "Process Planning for Aluminum Tubes: An Engineering-Operations Perspective," ***Operations Research***, Vol. 44, No. 1, pp. 7-20.

Balakrishnan, A., S. Brown, D. Dunlap, and R. Pahl. 1995. "Interdisciplinary Industry-University Collaboration: Lessons from an Operations Improvement Project," ***Interfaces***, Vol. 25, No. 5, pp. 12-41.

Balakrishnan, A., T. L. Magnanti, and R. T. Wong. 1995. "A Decomposition Algorithm for Local Access Telecommunications Network Expansion," ***Operations Research***, Vol. 43, pp. 58-76.

Balakrishnan, A., R. Kalakota, P. S. Ow, and A. B. Whinston. 1995. "Document-centered Information Systems to Support Reactive Problem-solving in Manufacturing," ***International Journal of Production Economics***, Vol. 38, pp. 31-58.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1994. "A Dual-based Algorithm for Multi-level Network Design," ***Management Science***, Vol. 40, pp. 567-581.

Balakrishnan, A., R. Kalakota, P. S. Ow, and A. B. Whinston. 1994. "Designing Collaborative Systems to Support Reactive Problem-Solving in Manufacturing," in *Integration: Information and Collaboration Models*, S. Y. Nof (ed.), Kluwer Academic Publishers, pp. 105-133.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1994. "Modeling and Heurstic Worst-case Performance Analysis of the Two-level Network Design Problem," ***Management Science***, Vol. 40, pp. 846-867.

Aman, A., A. Balakrishnan, and V. Chandru. 1992. "Dynamic Task Assignment in Distributed Manufacturing Systems," in *New Directions for Operations Research in Manufacturing*, G. Fandel, T. Gulledge and A. Jones (eds.), Springer-Verlag, pp. 249-263.

Balakrishnan, A., and K. Altinkemer. 1992. "Using a Hop-constrained Model to Generate Alternative Communication Network Designs," ***ORSA Journal on Computing***, Vol. 4, No. 2, pp. 192-205.

Balakrishnan, A., and A. B. Whinston. 1992. "Information Issues in Model Specification," ***Information Systems Research***, Vol. 2, No. 4, pp. 263-286.

Balakrishnan, A., T. L. Magnanti, A. Shulman, and R. T. Wong. 1991. "Models for Planning Capacity Expansion in Local Access Telecommunication Networks," ***Annals of Operations Research***, Vol. 33, pp. 239-284.

Balakrishnan, A., J. C. Moore, R. Pakath, and A. B. Whinston. 1991. "Information Tradeoffs in Model Building: A Network Routing Application," ***Comp. Sci. in Econ. and Mgt.***, Vol. 4, pp. 201-227.

Balakrishnan, A., T. W. Chien, and R. T. Wong. 1990. "Selecting Aircraft Routes for Long-haul Operations: A Formulation and Solution Method," ***Transportation Research***, Vol. 24B, No. 1, pp. 57-72.

Balakrishnan, A., T. L. Magnanti, and R. T. Wong. 1989. "A Dual-Ascent Procedure for Large-scale Uncapacitated Network Design," ***Operations Research***, Vol. 37, No. 5, pp. 716-740.

Balakrishnan, A. 1989. "Preemptive Scheduling of Hybrid Parallel Machines," ***Operations Research***, Vol. 37, pp. 301-313.

Chien, T.W., A. Balakrishnan, A., and R. T. Wong. 1989. "An Integrated Inventory Allocation and Vehicle Routing Problem," ***Transportation Science***, Vol. 23, pp. 67-76.

Balakrishnan, A., and S. C. Graves. 1989. "A Composite Algorithm for a Concave-cost Network Flow Problem," ***Networks***, Vol. 19, pp. 175-202.

Balakrishnan, A., R. D. Plante, and R. T. Wong. 1988. "The Nozzle Guide Vane Problem: Partitioning a Heterogeneous Inventory," ***European Journal of Operational Research***, Vol. 35, pp. 328-338.

Balakrishnan, A. 1987. "LP Extreme Points and Cuts for the Fixed-charge Network Design Problem," ***Mathematical Programming***, Vol. 39, pp. 263-284.

Balakrishnan, A., J. E. Ward, and R. T. Wong. 1987. "Integrated Facility Location and Vehicle Routing Models: Recent Work and Future Prospects," ***American Journal of Mathematical and Management Sciences***, Vol. 7, pp. 35-61.

Balakrishnan, A., and N. R. Patel. 1987. "Problem Reduction Methods and a Tree Generation Algorithm for the Steiner Network Problem," ***Networks***, Vol. 17, pp. 65-85.

PROCEEDINGS

Balakrishnan, P. Mirchandani, and B. Zhang. 2006. "Modeling and Solving Service Network Design Problems" (with P. Mirchandani and B. Zhang), *NSF Design, Service and Manufacturing Grantees and Research Conference Proceedings*, St. Louis, Missouri.

Balakrishnan, A., Y. Xia, and B. Zhang. 2005. "Shaping Demand to Match Anticipated Supply," Proceedings of the *Manufacturing & Service Operations Management Conference*, Evanston, IL, June 2005

Balakrishnan, P. Mirchandani, and B. Zhang. 2005. "Valid Inequalities for the Constrained Shortest Path Problem," Refereed proceedings of the *International Network Optimization Conference* INOC 2005, Lisbon, Portugal, March 2005, L. Gouveia and C. Mourao (eds.), pp. B1.24 to B1.30

Balakrishnan, A., P. Mirchandani, and B. Zhang. 2005. "A Cutting-Plane Approach for the Weight-Constrained Network Design Problem" *2005 NSF Design, Service and Manufacturing Grantees and Research Conference Proceedings*, Scottsdale, Arizona, J. Shah (ed.)

Balakrishnan, A., P. Mirchandani, and B. Zhang. 2004. "Optimal Routing in Service Networks," *2004 NSF Design, Service and Manufacturing Grantees and Research Conference Proceedings*, Dallas, Texas, R. Kovacevic (ed.)

Balakrishnan, A., and P. Mirchandani. 2003. "A New Approach for Designing Robust Networks," *2003 NSF Design, Service and Manufacturing Grantees and Research Conference Proceedings*, R. G. Reddy (ed.), pp. 617-646.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 2002. "Improved Formulations for Survivable Network Design," Proceedings of the *Sixth Annual INFORMS Telecommunications Conference*, Boca Raton, p. 49.

Balakrishnan, A., M. S. Pangburn, and E. Stavrulaki. 2000. "Lot Sizing with Demand Stimulating Inventories," Proceedings of the Manufacturing and Service Operations Management Conference, Ann Arbor, Michigan, July 2000.

Balakrishnan, A., and F. Vanderbeck. 1993. "Tactical Planning for High Mix Electronics Assembly Operations," Proceedings of the National Electronic Packaging and Production Conference, NEPCON East '93, Boston, pp. 261-271.

Balakrishnan, A., T. L. Magnanti, and P. Mirchandani. 1993. "Heuristic and LP Analysis of the Overlay Optimization Problem," Proceedings of the NETFLOW 93 Conference, San Miniato, Italy, pp. 35-41.

RESEARCH FUNDING

Research activities funded by grants and sponsored-research projects with Alcoa (1990-91), Allegheny-Ludlum (1995-96), Armstrong World Industries (1997-98), AT&T Research Foundation (1989-90), BNSF (2005–07), Corning (2001), GTE Labs (1987-88) , Hewlett-Packard (1994), MCI (1994-95), NATO Research Grant (1990), and National Science Foundation (1988-90, 2001-06).

STUDENT SUPERVISION

Served as thesis advisor or co-advisor for over 40 graduate (masters' and doctoral) students in management and engineering at Purdue, MIT, Penn State, and the University of Texas at Austin. Also served on thesis committees for many masters' and doctoral students.

Graduate students (2003-present)

- Sebastian Souyris, IROM PhD, in progress (advisor)
- Chinmoy Mohapatra, IROM PhD, in progress (advisor)
- Vivek Vasudeva, IROM PhD, in progress (advisor)
- Sifeng Lin, ORIE PhD, in progress (advisor)
- June Si, ORIE PhD, in progress (advisor)
- Huaxia Rui,IROM PhD, 2012 (member)
- Gang Li, IROM PhD, 2011 (chair)
- Kursad Derinkuyu, PhD, 2011 (chair)
- Chinmoy Mohapatra, MS, 2011 (advisor)
- Roshan Kumar, Civil Engg PhD, 2011 (member)
- Haoying Sun, IROM PhD, 2011 (member)
- Lizhen Xu, IROM PhD, 2011 (member)
- Wei Chen, IROM PhD, 2011 (member)
- Uthra Vijayaraghavan, MS, 2010 (advisor)
- Liwen Chen, IROM PhD 2010 (member)
- Amy Pan, IROM PhD 2009 (chair)
- Sreelata Jonalagedda, IROM PhD 2009 (member)
- Natalia Ruiz Juri, Civil Engg PhD 2009 (member)
- Steve Boyles, Civil Engg PhD 2009 (member)
- Jianqing Chen, IROM PhD 2008 (member)
- Bo Zhang, IROM PhD 2007 (chair)
- Xia Zhao, IROM PhD 2007 (member)
- Vivek Vasudeva, MS 2007 (advisor)
- Wei Chen, IROM PhD 2008 (member)
- Jianqing Chen, IROM PhD 2008 (member)
- Mehmet Ferhat Candas, ORIE PhD 2007 (member)
- Ampol Karoonsoontawong, Civil Engg PhD 2007 (member)

- Vishv Jeet, ORIE PhD 2006 (member)
- Eva Xu, OM PhD 2005 (member)
- Fang Fang, MSIS PhD 2005 (member)
- Guidong Zhu, MSIS PhD 2005 (member)
- Yusen Xia, MSIS PhD 2004 (member)
- Hari Natarajan, PhD 2004 , Penn State (chair)
- Sameer Kanegaonkar, MS 2003 (advisor)
- Arun Matthews, MS 2003 (advisor)

PROFESSIONAL ACTIVITIES

Editorial Service

- Area Editor, *Operations Research*, 2006-2012
- Associate Editor, *Manufacturing & Service Operations Management*, 2010-present
- Editorial Board Member, *Networks*, 1999–present
- Associate Editor, *Management Science*, 2006–2009
- Senior Editor, *Productions and Operations Management*, 2003–07, 2008-09
- Co-editor, Special issue of *Production and Operations Management* on "Collaboration and Coordination in Supply Chain Management and E-Commerce," 2002–04
- Senior Editor, *Manufacturing & Service Operations Management*, 1996–2005
- Area Editor, Telecommunications & E-Commerce, *INFORMS Journal on Computing*, 1992–2001
- Editorial Board Member, *Telecommunication Systems*, 1994–2006
- Editorial Board Member, *Technology & Operations Review*, 1996–99

Professional Service

- Advisory Committee member, INFORMS Optimization Society Conference, Miami, 2012
- National Science Foundation Panel, DMII, 2011
- Candidate for INFORMS President-elect/President, 2011
- Program Committee member, *International Network Optimization Conference* (INOC) 2011, Hamburg, 2011
- Program Chair for Invited Clusters, INFORMS National Meeting, Austin, 2009-10
- Ph.D. Program Peer Review, HKUST Business School, 2009
- Chair, INFORMS Telecommunications Section Dissertation Award Committee, 2007-08
- INFORMS Vice-President for Subdivisions, 1999–2002
- Member of Scientific Committee, *International Network Optimization Conference* (INOC) 2005, Lisbon, 2005
- National Science Foundation Career Panel, Service Enterprise Engineering (SEE) program, DMII, 2004
- Member of International Scientific Committee, Fifth Triennial Symposium on Transportation Analysis (TRISTAN V), Guadeloupe, 2004
- Program committee member, INFORMS Telecommunications Conference, Boca Raton, 2004
- Panel member, M&SOM Student paper competition, 2000
- Member, INFORMS Jobs Placement Committee, 1997–99
- Council Member, INFORMS Telecommunications Section, 1995–98

- Co-chairman, Program Committee, TIMS/ORSA Joint National Meeting, Boston, 1994
- Member, Nicholson Prize Committee, Operations Research Society of America, 1992
- Chairman, Dissertation Award Committee, Production and Operations Management Society, 1992
- Chair, Invited Cluster on "Supply Chain and Operations Engineering" at the INFORMS National Meeting, Pittsburgh, 2006
- Chair, Invited Cluster on "Operations Management" at Joint IFORS/INFORMS meeting, Hawaii, 2005
- Cluster Chair, "Network Optimization" cluster in CORS/INFORMS Joint International Meeting, Banff, Canada, 2004.
- National Science Foundation Panel, DMII, 2004
- Session chair at several conferences including (recently): 19th International Symposium on Mathematical Programming, Rio de Janeiro, 2006; 2007 International Conference on Manufacturing and Service Operations Management, Beijing, 2007; INFORMS National Meeting, Seattle, 2007; INFORMS National Meeting, Austin, 2010; INFORMS National Meeting, Charlotte, 2011

Referee for many journals including:

Management Science, Operations Research, Decision Support Systems, IIE Transactions, Mathematical Programming, Naval Research Logistics, Networks, SIAM Journal of Discrete and Algebraic Methods, Transportation Science, Transportation Research, INFORMS Journal on Computing, Telecommunication Systems, Annals of Operations Research, and National Science Foundation

Professional Presentations (2004-present)

- Plenary talk on "Stack them high, Let 'em fly: Models for Retail Supply Chain Management" at the Third Biennial Supply Chain Management Conference, Indian Institute of Management, Bangalore, December 2012

- "Solving Non-linear Optimization Problems using Piecewise Linear Approximation" (with V. Vasudeva and L. Lasdon), in Sponsored cluster on Optimization, INFORMS National Meeting, Phoenix, AZ, October 2012

- Plenary talk on "Optimization over Time-Space Networks: Applications to Transportation and Service Operations" at the International Network Optimization Conference INOC 2011, Hamburg, Germany, 2011

- "Assigning Train Crews in Double-ended Districts" (with A. Kuo and X. Si), Sponsored cluster, INFORMS National Meeting, Charlotte, NC, November 2011

- "Locomotive Assignment with Train Delay Options" (with S. Souyris and K. Crook), Sponsored cluster, INFORMS National Meeting, Charlotte, NC, November 2011

- "Shipment Dispatching on Capacitated Networks" (with C. Mohapatra and B. Roth), Sponsored cluster, INFORMS National Meeting, Charlotte, NC, November 2011

- "Scheduling Rail Grinding Operations" (with Kursad Derinkuyu and Juan Morales) at INFORMS National Meeting, Austin, TX, November 2010

- "Resource Selection and Project Scheduling with Job Coordination Requirements" (with Gang Li), ALIO-INFORMS Joint International Meeting, Buenos Aires, June 2010

- "Browse-and-Switch: Retail-online Competition under Value Uncertainty," Supply Chain and Operations Management Workshop, McCombs School of Business, University of Texas at Austin, September 2009

- "Advances in Modeling and Solving Network Design Problems," a series of three talks presented at NetOpt2009, Winter School on Network Optimization (sponsored by European Network Optimization Group), Estoril, Portugal, January 2009

- "Network Design with Service Guarantees," (with P. Mirchandani), INFORMS National Meeting, Washington DC, October 2008

- "Optimal Routing of Geometry Cars," (with J. Morales and G. Li), INFORMS National Meeting, Washington DC, October 2008

- "Resource Planning and Job Scheduling for Project Management," (with G. Li), INFORMS National Meeting, Washington DC, October 2008

- "Optimizing Sourcing and Bulk Delivery Operations," (with X. Pan), INFORMS National Meeting, Washington DC, October 2008

- "Browse-and-Switch: Retail-online Competition under Value Uncertainty," Invited seminar, Kenan-Flagler Business School, University of North Carolina, Chapel Hill, NC, November 2007

- "Delivery Fee Design for Logistics Partnerships," (with H. Natarajan), INFORMS Annual Meeting, Seattle, WA, November 2007

- "Network Selection Problem: Constructing Smaller Approximate Networks," (with G. Li, and H. Natarajan), INFORMS Annual Meeting, Seattle, WA, November 2007

- "Optimal Routing of Inspection Vehicles," (with G. Li, J. Morales, and B. Roth), INFORMS Annual Meeting, Seattle, WA, November 2007

- "Optimizing Ballast Sourcing and Delivery Operations," (with A. Pan and B. Roth), INFORMS Annual Meeting, Pittsburgh, PA, November 2006

- "Spatial Scheduling and Resource Selection with Activity Coordination Requirements," (with G. Li and B. Roth), INFORMS International Meeting, Hong Kong, June 2006

- "Cutting Plane Approach to Service Network Design," (with P. Mirchandani and B. Zhang), 19th International Symposium on Mathematical Programming, Rio de Janeiro, August 2006

- Plenary talk on "Advances in Modeling and Solving Network Design Problems," at the Eighth INFORMS Telecommunications Conference, Dallas, Texas, March–April 2006

- Invited seminar on "Browse-and-Switch: Retail-Online Competition under Value Uncertainty," at Lundquist College of Business, University of Oregon, March 2006; Fisher College of Business, Ohio State University, April 2006; Koc University, Istanbul,

April 2006; Indian School of Business, Hyderabad, July 2006; Indian Institute of Management, Ahmedabad, July 2006

- Invited presentation on "Relevance and Rigor: Practice-driven Supply Chain Research Projects," University of Texas Supply Chain Consortium Roundtable Meeting, Austin, TX, May 2006

- Invited talk on "Browse and Switch: Retail-online Competition under Value Uncertainty" at the Smith School of Business, University of Maryland, College Park, MD, December 2005

- Invited talk on "Cutting-plane Approach for Service Network Design" (with P. Mirchandani and B. Zhang),Workshop on Flexible Network Design, Princeton University, Princeton, NJ, November 2005

- "Shaping Demand to Match Anticipated Supply" (with Y. S. Xia and B. Zhang), Manufacturing & Service Operations Management conference, Evanston, IL, June 2005

- Invited talk on "Retail-online Competition under Value Uncertainty: Modeling Retail Browsing" at the Cox Business School, Southern Methodist University, April 2005; University of Washington Business School, April 2005

- "Valid Inequalities for the Constrained Shortest Path Problem" (with P. Mirchandani and B. Zhang) at the International Network Optimization Conference INOC 2005, Lisbon, Portugal, March 2005.

- "Optimal Supplier Selection and Assignment in Multi-division firms" (with H. Natarajan), INFORMS National Meeting, Denver, October 2004

- "Demand Shaping for Differentiated Products with Limited Component Availability" (with Y. Xia and B. Zhang), INFORMS National Meeting, Denver, October 2004

- "Cutting-plane approach for service-constrained routing" (with P. Mirchandani and B. Zhang) in CORS/INFORMS International Meeting, Banff, Canada, May 2004

- Plenary talk on "Advances in Modeling and Solving Network Design Problems" in Optimization Days 2004 conference, University of Montreal, May 2004,

- "Modeling and Solving Survivable Network Design Problems" in OR/IE Seminar, University of Texas at Austin, April 2004

- Invited talk on "Network Design: Models and Algorithms," Operations Research Seminar, Penn State University, March 2004

- "Robust Metaheuristics for the Survivable Network Design Problem" (with P. Mirchandai, M. Banciu, and K. Glowacka), 7th INFORMS Telecommunications Conference, Boca Raton, March 2004

- Plenary talk on "Retail-Online Competition under Value Uncertainty" in NSF Workshop on Supply Chain Management, University of Florida, Gainesville, February 2004

UNIVERSITY SERVICE

Served as chair or member of many school-wide and departmental committees, at Purdue, MIT, and Penn State, dealing with strategic planning, doctoral curriculum design, graduate programs review and renewal (Ph.D. and MBA), undergraduate research opportunities, promotion and tenure, recruiting, research, and outreach activities.

Service activities at UT Austin and McCombs School of Business

- IROM Executive Committee, 2012-
- Chair, OM Faculty Recruiting Committee, 2012-
- Member, Panel of judges, Charnes Fellowship Award, 2012
- Associate Dean for Research, 2004 – 2011
- McCombs School Strategic Guidance Committee, 2009
- Chair, Post-tenure Review Committee for IROM faculty member, 2011-12
- Third Year Review Committee for IROM faculty member, 2009
- Chair, OM Faculty Recruiting Committee, 2008-09, 2007-08, 2006-07, 2005-06, and 2004-05
- Chair, Promotions Committee for two IROM faculty members, 2007 and 2008
- Faculty Research Committee, 2004-2011
- Executive Committee, 2004-2011
- Operations Committee, 2004-2011
- McCombs School Promotions Committee, 2003–07
- IROM Executive Committee, 2005–06
- Budget Council, MSIS department, 2002–05
- Task force for OM – MSIS merger, 2004–05
- SCOM PhD program coordinator, 2003–04
- McCombs School Faculty Advisory Committee, 2003–04
- McCombs Ad hoc Committee on Research Centers, 2003–04
- MS/Stat Strategic Planning Subcommittee, 2002–03
- Chair, Committee on Supply Chain Management PhD program design, MSIS Department, 2003