

Alok Baveja

Professor
Department of Supply Chain Management
Rutgers Business School
Rutgers, The State University of New Jersey
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RESEARCH INTERESTS

Management of Operations/Supply-Chain in Public and Private Enterprises with emphasis on innovative use of modeling and technologies. Special interest in urban, transportation and healthcare systems.

EDUCATION

State University of New York at Buffalo , Buffalo, New York <i>Doctor of Philosophy, Industrial Engineering/Operations Research</i>	1993
Indian Institute of Technology , New Delhi, India <i>Bachelor of Technology, Mechanical Engineering</i>	1987

ACADEMIC POSITIONS

**Department of Supply Chain Management
Rutgers Business School – Newark and New Brunswick
Rutgers, The State University of New Jersey**

Professor	2015 – Present
Director of Strategy and Innovation	2020 – Present
Interim Department Chair	2016 – 2017
Interim Department Vice-Chair	2019
Dean’s Research Professorship	2019 – 2022

**School of Business - Camden
Rutgers, The State University of New Jersey
Camden, New Jersey**

Professor	2008 – 2015
Associate Professor	2000 – 2008
Assistant Professor	1994 – 2000

OTHER AFFILIATIONS

Core Faculty Rutgers Global Health Institute Rutgers, The State University of New Jersey	2020 - Present
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Associate Faculty Institute for Health, Health Care Policy and Aging Research Rutgers, The State University of New Jersey	2018 – Present
Academic Director	2016 – 2017
Research Faculty Fellow Center for Supply Chain Management Rutgers Business School – Newark and New Brunswick Rutgers, The State University of New Jersey	2013 - Present
Member Governance Committee of the Board of Trustees Nominating Committee of the Board of Trustees Virtua Health, Marlton, NJ	2013 - 2019 2011 - 2018
Affiliated Faculty CAIT/Maritime Infrastructure Engineering and Management Program Civil and Environmental Engineering Department – New Brunswick Rutgers, The State University of New Jersey	2006 - Present

RESEARCH GRANT AWARDS

Awarded

- “An Academic-Community Research Partnership to Enhance Structural Competency for Health Equity”, *Rutgers Biomedical and Health Sciences IDEA Innovation Grant*, \$3,690, 2020 (Core Faculty Member)
- “Project-based Supply Chain Learning Curriculum”, *New Jersey Department of Education*, \$70,097, 2019-2020 (Co-Principal Investigator)
- “Mobilizing Multidisciplinary Partnerships to Enhance Telehealth Uptake in Underserved Communities”, \$70,514, *Initiative for Multidisciplinary Research Teams*, 2019-2021 (Co-Principal Investigator)
- “Opioid Public Health Crisis Response – An Early Warning System”, \$141,947, *Centers for Disease Control and Prevention (Via the New Jersey Department of Health)*, 2018-2019 (Principal Investigator)
- “Expanding the Rheumatology Workforce via Training in Telemedicine”, \$342,903, *Pfizer*, 2018-2020 (Co-Principal Investigator).
- “Project-based Supply Chain Learning Curriculum”, *New Jersey Department of Education*, \$132,676, 2018-2019 (Co-Principal Investigator)
- “Reducing Cardiovascular Disease Risk in the Greater Newark Area: Understanding the Causes and Offering Solutions”, \$60,000, *Rutgers-Newark Chancellor’s Seed Grant*, 2017-2019 (Co-Principal Investigator)
- “Rutgers Supply Chain Budding-Knowledge Program”, \$50,000, *Rutgers-Newark Chancellor’s Seed Grant Program*, 2016-2018 (Co-Principal Investigator).

- “Forecasting Demand for Non-Emergency Medical Transportation Service”, \$100,000, *Ambulnz Holding LLC*, 2016-17 (Co-Principal Investigator)
- “Effective and Equitable Supply of Gasoline to Impacted Areas in the Aftermath of a Natural Disaster,” \$79,572, *U.S. Department of Transportation (Via the University Transportation Research Center Program)*, 2014- 2015 (Co-Principal Investigator)
- “Next Generation Sustainable Freight Transportation,” \$82,153 (£49,490) *The British Council – UKIERI Trilateral Research in Partnership Program*, 2013-2016 (US – Lead Investigator)
- “Cardiovascular Health Data Analytics,” \$75,000, *Centers for Disease Control and Prevention (Via the New Jersey Department of Health)*, 2013 (Principal Investigator)
- “A Novel Methodological Framework for Modeling Flexible Transit Services,” \$82,344, *Transportation Coordinating Council/Federal Transit Administration Research Program*, 2009-2011 (Co-Principal Investigator)
- “Partnership to Maximize Port Industry Performance”, \$599,346, *National Science Foundation – Partnerships for Innovation*, 2006 – 2010 (Principal Investigator)
- International Research and Education in Engineering Supplement Grant Award, \$23,750, *National Science Foundation*, 2007-2008 (Principal Investigator)
- “Defining, benchmarking and evaluating performance measures in the healthcare industry”, \$69,951, *New Jersey Department of Health and Senior Services*, 2003-2004 (Principal Investigator)
- “Detection and Prediction of Geographical Changes in Crime Rates,” \$221, 520, *National Institute of Justice*, 1998-2002 (Sub-Contractor/Consultant)
- Rutgers University, Internal Grants, Annual Award Amounts ranging from \$1050 to \$12,000, Cumulative over \$200,000, 1994 – Present

RECOGNITION, HONORS AND AWARDS

- ❖ *Advisor, Roshni Rides*, Winner of \$1 Million Hult Prize, 2017

Referred to as the “Nobel Prize for Students”, the Hult Prize was awarded to Rutgers Supply Chain Management team that outcompeted 50,000 contestants from 100 countries. Their award-winning idea was a reliable, affordable and accessible ridesharing rickshaw transportation service for refugees in South Asia.

- ❖ *Bestseller Reprint*, Harvard Business School’s Case Series, 2001

- ❖ *Best of Management*, L’Expansion Management Review, 1999

- ❖ *Christian R. And Mary F. Lindback Distinguished Teaching Excellence Award*, 2012

Recognized by Students and Colleagues for Lifetime Teaching Contributions and Outstanding Service in Stimulating and Guiding the Intellectual Development of Students at Rutgers University.

- ❖ *The Warren I. Susman Award for Excellence in Teaching*, Rutgers University, 2012

The highest teaching honor conferred by Rutgers University across all campuses. In recognition of passionate commitment as a teacher and mentor to creating a welcoming and positive learning environment for all students, and for the ability to teach difficult concepts simply and concisely, thus challenging and inspiring students to think in different and innovative ways.
- ❖ *Dean's Research Professorship*, Rutgers Business School, Rutgers University, 2019-2021
- ❖ *Deans's Meritorious Teaching Award*, Rutgers Business School, Rutgers University, 2018
- ❖ *Bright Idea Award in HealthCare Management*, New Jersey Policy Research Organization Foundation and Stillman School of Business, New Jersey, 2007
- ❖ *Bright Idea Research Award in Law Enforcement Management*, New Jersey Policy Research Organization Foundation, New Jersey, 2005
- ❖ *Who's Who in America*, 2008
- ❖ *Technology Sharing Award for the Development and Implementation of Strategic Information Sharing Tools*, New Jersey Policy Research Organization Foundation, 2003
- ❖ *Campus-Wide Provost's Teaching Excellence Award*, Rutgers University, Camden, NJ, 1998
- ❖ *School of Business Teaching Excellence Award*, Rutgers University, Camden, NJ 2013, 2006, 2002, 2000, 1996
- ❖ *Award of Honor*, ICMARD, Indian Institute of Technology, New Delhi, 2003
- ❖ *School of Business Research Excellence Award*, Rutgers University, Camden, NJ, 2000, 1994
- ❖ *Professor of the Year*, Institute of Industrial Engineers, SUNY-Buffalo, 1994
- ❖ *Outstanding Teaching Assistant Award*, Institute of Industrial Engineers (IIE) student chapter at SUNY-Buffalo, 1991

EDITORSHIP OF JOURNALS

- Associate Editor, *Socio-Economic Planning Sciences*, 2007 – Present
- Special Issue Associate Editor, *Interfaces*, 2015-2016
- Associate Editor, *IIE Transactions on Scheduling and Logistics*, 2001-2009

PUBLICATIONS

1. Baveja, A., A. Kapoor, B. Melamed. 2020. "Stopping Covid-19: A Pandemic-Management Service Value Chain Approach," *Annals of Operations Research*, Vol. 289, No. 2, pp. 173-184.

2. Baveja, A., A. Chavan, A. Nikiforov, A. Srinivasan, P. Xu. 2018. "Improved Bounds in Stochastic Matching and Optimization," *Algorithmica*, Vol. 80, No. 11, pp. 3225-3252.
3. Chen, W., A. Baveja and B. Melamed. 2018. "Temporal Shaping of Simulated Time Series With Cyclical Sample Paths," *Probability in the Engineering and Informational Sciences*, Vol. 32, No. 1, pp. 126–143.
4. Mukherjee, S., Spell, C.S. and Baveja, A. 2017. "Mathematical Equivalence of 'Racial Match Index' and 'Representativeness' Measures," *SSRN Electronic Journal*, SSRN: <https://ssrn.com/abstract=3016203> or <http://dx.doi.org/10.2139/ssrn.3016203>
5. Mittal, N, A. Baveja and R. Krishnan. 2015. "Sustaining Sustainability in Marine Terminals: A Strategic Framework," *Journal of Transportation Research Forum*, Vol. 54, No. 2, pp. 5-22.
6. Mittal, N., M. Boile, A. Baveja, S. Theofanis. 2013. "Determining Optimal Inland-empty-container Depot Locations Under Stochastic Demand," *Research in Transportation Economics*, Vol. 42. No. 1, pp. 50-60.
7. Shankar R., N. Mittal, S. Rabinowitz, A. Baveja, S. Acharia. 2013. "Managing Knowledge Loss in New Product Development Processes," *International Journal of Production Research*, Vol. 51, No. 7, pp. 2049-2059.
8. Mittal, N., M. Boile, A. Baveja, S. Theofanis. 2013. "Incorporating Maritime Stakeholder Perspectives for Implementing an 'Inland-Depots-for-Empty-Containers' System Using an Analytic Hierarchy Process," *International Journal of Information Systems and Supply Chain Management*, Vol. 6, No. 1, pp. 1-23.
9. Taber, A., A. Nikiforov and A. Baveja. 2012. "An Optimization Mathematical Model for Concentrated-Solar-Power Financing Decisions at Lockheed Martin," *Interfaces*, Vol. 42, No. 6, pp. 591-594.
10. Khatri, N., A. Baveja, N.M. Agarwal and G.D. Brown. 2010 "HR and IT Capabilities and Complementarities in Knowledge-Intensive Services," *International Journal of Human Resource Management*, Vol. 21, No. 15, pp. 2889-2909.
11. Shankar R., S. Acharia and A. Baveja. 2009. "A Soft-system Knowledge Management Framework for New Product Development," *Journal of Knowledge Management*, Vol. 13, No. 1, pp. 135-153.
12. Boile, M., S. Theofanis, A. Baveja, N. Mittal. 2008. "Regional Repositioning of Empty Containers: A Case for Inland Depots," *Transportation Research Record*, Vol. 2066, pp. 31-40.
13. Baveja, A. 2008. "The Fractional Congestion Bound for Efficient Edge Disjoint Routing," *Networks*, Vol. 51, No. 3, pp. 190-199.
14. Khatri, N., A. Baveja, S. Boren and A. Mammo. 2006. "Medical Errors and Quality of Care: From Control to Commitment," *California Management Review*, Vol. 48, No. 3, pp. 115-141. [Also, Harvard Business School Publishing, 2006, CMR 342].
15. Kumar, A., Prakash, M.K. Tiwari, R. Shankar and A. Baveja. 2006. "Solving Machine Loading Problem of a Flexible Manufacturing System with Constraint-Based Genetic Algorithm," *European Journal of Operational Research*, Vol. 175, pp. 1043-1069.

16. Baveja, A., M. Jamil and D. Kushary. 2004. "Sequential Model for Cracking Down on Street Markets for Illicit Drugs," *Socio-Economic Planning Sciences*, Vol. 38, No. 1, pp. 7-41.
17. Redmond, M., A. Baveja. 2002. "A Data-Driven Software Tool for Enabling Cooperative Information Sharing Among Police Departments," *European Journal of Operational Research*, Vol. 141, pp. 660-678.
18. Mascarenhas, B., A. Kumaraswamy, D. Day and A. Baveja. 2002. "Five Strategies of Rapid Firm Growth and How to Implement Them," *Managerial and Decision Economics*, Vol. 23, pp. 317-330.
19. Baveja A., G. Feichtinger, R.F. Hartl, J.L. Haunschmied, and P.M. Kort, 2000. "A Resource Constrained Optimal Control Model for Crackdown on Illicit Drug Markets," *Journal of Mathematical Analysis and Applications*, Vol. 249, No.1, pp. 53-79.
 - In the Centennial Issue honoring Richard Bellman (the founding editor of the journal) for his lifetime achievement in the field of Operations Research
20. Baveja A., A. Srinivasan. 2000. "Approximation Algorithms for Disjoint Paths and Related Routing and Packing Problems," *Mathematics of Operations Research*, Vol. 25, No. 2, pp. 255-280.
21. Baveja A., A. Srinivasan. 2000. "Approximating Low-Congestion Routing and Column-Restricted Packing Problems," *Information Processing Letters*, Vol. 74, No. 1-2, pp. 19-25.
22. D'Alessandro, A.J., A. Baveja. 2000. "Divide and Conquer: Rohm and Haas' Response to Changing Specialty Chemicals Market," *Interfaces* Vol. 30, No. 6, pp. 1-16.
 - Lead/cover article of this issue of Interfaces
23. Jamil, M., A. Baveja and R. Batta. 1999. "The Stochastic Queue Center Problem," *Computers and Operations Research (Location Science)*, Vol. 26, No. 14, pp. 1423-1436.
24. Mascarenhas, B., A. Baveja and M. Jamil. 1998. "Dynamics of Core Competencies in Leading Multinational Companies," *California Management Review*, Vol. 40, No. 4, pp. 117-132.
 - Harvard Business School Publishing, 2001, Case CMR 128, Bestseller Reprint;
 - Co-Published in A. A. Thompson and A.J. Strickland, *Crafting and Executing Strategy* by Powerweb, 2001, McGraw Hill/Irwin, 12th Edition;
 - Co-Published in L'Expansion Management Review, *Le melleur des revues de management*, No. 92, Mars 1999. Best of Management, Comment Naissent les Competencies
25. Turnbull, J., L. Lin and A. Baveja. 1997. "Enhancing Student Achievement and Management Productivity in Prison Academic Programs: An Information Systems Approach," *Journal of Correctional Education*, Vol. 48, No. 3, pp. 113-122.
26. Baveja, A., J. P. Caulkins, W. Liu, R. Batta and M. H. Karwan. 1997. "When Haste Makes Sense: Cracking down on Street Market for Illicit Drugs," *Socio-Economic Planning Sciences*, Vol. 31, No. 4, pp. 293-306.

27. Baveja A., C.G. Drury, M.H. Karwan and D.M. Malon. 1996. "Derivation and Test of an Optimum Overlapping-Lobes Model of Visual Search," *IEEE Transactions on Systems, Man and Cybernetics*, Vol. 26, No. 1, pp. 161-168.
28. Naik, A. V., A. Baveja, R. Batta and J. P. Caulkins. 1996. "Theory and Methodology: Scheduling Crackdowns on Illicit Drug Markets," *European Journal of Operational Research*, Vol. 88, pp. 231-250.
29. Baveja A. and G. Porter. 1996. "Creating an Environment for Personal Growth: The Challenge of Leading Teams," *Advances in Interdisciplinary Studies of Work Teams*, Vol. 3, pp. 127-143.
30. Ding, Y., A. Baveja and R. Batta. 1994. "Implementing Larson and Sadiq's Location Model in a Geographic Information System," *Computers and Operations Research*, Vol. 21, No. 4, pp. 447-454.
31. Baveja, A., R. Batta, J. P. Caulkins and M. H. Karwan. 1993. "Modeling the Response of Illicit Drug Market to Local Enforcement," *Socio-Economic Planning Sciences*, Vol. 27, No. 2, pp. 73-89.

PUBLICATIONS UNDER REVIEW/IN-PROGRESS

1. "A systematic review of the effectiveness of telemedicine in reproductive and neonatal health in rural and low-income areas in India," *Telemedicine and E-Health* (Minor Revision)
2. *Driving Value Through the Supply Chain: Customer-Centric Logistics and Transportation*, Kendall Hunt (In Preparation)
3. "Improving Relationship Among Law Enforcement Agencies and Community Through Heterogeneity and Diversity Match," *Journal of Applied Psychology* (Revise and Resubmit)
4. "Big Data Excellence: A Framework for Sustained Excellence," *California Management Review* (Revise and Resubmit)
5. "Improved Sample-Complexity Bounds in Stochastic Optimization," *Operations Research* (Revise and Resubmit)
6. "Uncovering the Factors that Shape Freight Shippers' Rail Versus Road Choice: An Indian Perspective," *Transport Policy* (Under Review)
7. "The Five-E Sustainable Competitive Advantage," *Journal of International Business Studies* (Under Review)
8. "Realizing the potential of improving maintenance operations in capital-intensive plants using Critical Chain" (In-Progress)
9. "Dynamic Programming Algorithm for Solar Power Plant Operations" (In-Progress)
10. "A Randomized Rounding Search Heuristic for Locating Depots in a Large-Scale 'Inland-Depots-for-Empty-Containers' (IDEC) System" (In-Progress)

REFEREED CONFERENCE PROCEEDINGS

1. Baveja, A., A. Chavan, A. Nikiforov, A. Srinivasan, and P. Xu, “Improved Bounds in Stochastic Matching and Optimization”. Proc. International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2015.
2. Mittal N., A. Baveja, M. Boile, S. Theofanis , “A Two-Stage Stochastic Program with Recourse for Analyzing Effect of Demand Uncertainty in the ‘Inland-Depots-for-Empty-Containers’ (IDEC) System”, 89th Annual Transportation Research Board Annual Meeting, January 2009, Washington D.C.
3. Boile M., N. Mittal, A. Baveja, S. Theofanis, “Analyzing the Effect of Varying Stochastic Demand Scenarios on an ‘Inland-Depots-for-Empty-Container’ (IDEC) System”, Proceedings of the METRANS International Trade and Freight Transportation Conference (ITFTC), September 2008, Cyprus.
4. Mittal, N., M. Boile, S. Theofanis, A. Baveja, “Analyzing the Effect of Stochastic Demand for Empty Container Repositioning on Regional Depot Capacity”, Proceedings of the *International Congress on Transport Research*, May 2008, Athens, Greece
5. Boile, M, S. Theofanis, A. Baveja, N. Mittal, “Regional Repositioning of Empty Containers: A Case for Inland Depots”, Proceedings of the 87th *Transportation Research Board Annual Meeting*, Washington, D.C., January 2008
6. Boile, M., S. Theofanis, A. Baveja, N. Mittal, “Evaluating the Effectiveness of Inland Depots for Empty Containers (IDEC) Concept in Empty Container Management”, Proceedings of the *METRANS National Urban Freight Conference*, Long Beach, CA, December 2007
7. Boile, M., S. Theofanis, A. Baveja, “An Integrative Conceptual Framework for Stakeholder Collaboration in Maximizing Port Industry Performance - the Case of the NY/NJ Region,” Proceedings of the *Transportation Research Forum*, 2006
8. “Implementing an Enhanced Distribution Network Model for a Multi-National Specialty Chemical Company,” Proceedings of the *Decision Science Institute Conference*, 1998
9. “Allocation of Resources for Re-vitalization of Inner-City Neighborhoods with Illicit Drug Problem,” Proceedings of the *International Conference on Operations and Quantitative Management*, 1997

PRACTITIONER PUBLICATIONS

- Baveja, A., A. Kapoor. “Our Goal Should be to Stop COVID-19 not Slow It Down,” Star-Ledger/NJ.com (Op-Ed), March 25, 2020, <https://www.nj.com/opinion/2020/03/our-goal-should-be-to-stop-covid-19-not-slow-it-down-opinion.html>. This was also posted on RBS Business Insights - <https://www.business.rutgers.edu/business-insights/proposal-stop-pandemic-calls-drastic-restrictions>
- Oppenheim, R., A. Baveja, M. Klapholz, K. Lyons, A. Mammo, S. Mukherjee and C. Spell. “Reducing Cardiovascular Disease Risk in the Greater Newark Area: Understanding Causes and Offering Solutions,” *Rutgers-Newark Chancellor Seed Grant Report*, 2020.

- Baveja, A., E. Kim, A. Mammo, W. McLaury, V. Puerto, M. Walsman. “Opioid Public Health Crisis Response: An Early Warning Alert System,” *New Jersey Department of Health/Centers for Disease Control*, 2019.
- Baveja, A., A. Mammo, G. Johnston and L. Wilkerson-Leconte. “New Jersey Cardiovascular Health Data Analytics,” *New Jersey Department of Health/Centers for Disease Control*, 2013.
- “Secrets of Strategic Decision-Making,” *Law Enforcement News*, John Jay College of Criminal Justice – City University of New York, Vol. XXVIII, No. 584, 2002
- “Fighting Terrorism: Grappling with the Police Chief’s Dilemma,” *Police Chief*, Vol. 69, No. 3, 2002
- “America’s War on Terrorism: Can the US Learn from It’s War on Drugs?” *Journal of Counterterrorism and Security International*, Vol. 8, No. 1, 2001
- “Can Information Technology Enable Police Departments to Think Strategically?” *The Public Policy Forum*, Fall/ Winter 1998
- “Evaluation of Aircraft Inspection System,” *Federal Aviation Administration*, Department of Transportation, Washington, D.C., December 1991

PRESENTATIONS

1. “The Opioid Crisis: How Disruptive Interventions in the Prescription Opioid Supply Chain Make the Crisis Deadlier,” *INFORMS Healthcare Virtual Conference*, July 2021
2. “A Supply Chain Management Perspective of the Opioid Crisis: A Data-Driven Longitudinal Empirical Analysis,” *Production and Operations Management (POMS) Virtual Annual Meeting*, May 2021
3. “Sustainable Transportation: Uncovering Manager’s Perception of Factors that Influence an Organization’s Choice Between Rail and Road Transport in the Indian Metal-Making Sector,” *Decision Sciences Institute Annual Meeting*, Chicago, IL, November 2018
4. “Brain Vs. Grain: A Patient-Centric View,” *Saint Peters University Hospital (Grand Rounds – Invited Talk)*, New Brunswick, NJ, July 2016
5. “A Diversity Match Index to Mitigate Observer Bias”, *Rutgers Scholarship on Diversity & Inclusion: Present Findings & Future Considerations*, Rutgers University, New Brunswick, NJ, April 2016
6. “Impact of healthcare reform on hospital supply chain partners,” *Production and Operations Management Society Conference*, Orlando, FL, May 2016
7. “Optimal Portfolio of Supply Chain Risk Mitigation Plans,” *Institute for Operations Research and Management Sciences*, Philadelphia, PA, November 2015
8. “Global Sustainable Business Practices in Freight Logistics and Related Issues,” *Next Generation Sustainable Freight Transportation Workshop*, Indian Institute of Technology, New Delhi, India, August 2014.

9. "A new methodology for investigating health disparities," *Institute for Operations Research and Management Sciences*, Minneapolis, MN, October 2013.
10. "Sustaining Sustainability", *Next Generation Sustainable Freight Transportation Workshop*, Indian Institute of Technology, New Delhi, India, August 2013.
11. "Inland-Depots-for-Empty-Containers' (IDEC) Concept for Effective Regional Repositioning of Empty Containers", *54th Regional Science Meeting*, Brooklyn, New York, November 2008.
12. "Analyzing Demand Uncertainty in an 'Inland Depot for Empty Containers' System and Solving a Large-Scale Facility Location Problem", *Institute for Operations Research and Management Science*, Washington D.C., October 2008.
13. "Inland-Depots-for-Empty-Containers (IDEC) System for Effective Regional Repositioning of Empty Containers", *Global Supply-Chain Transportation and Logistics*, IIT Delhi, New Delhi, August 2008 (Keynote address).
14. "Partnership for Maximizing Port Industry Performance," National Science Foundation Partnerships for Innovation Workshop, March-April 2008.
15. "A Multi-Criteria Decision Making Approach for A Sustainable Development of 'Inland-Depots-for-Empty-Container' (IDEC) System", *49th Annual Transportation Research Forum Conference*, Dallas/Fort Worth, Texas, March 2008.
16. "The Crucial Role of HR and IT in Professional Services," *Academy of Management*, Philadelphia, PA, August 2007
17. "Complementary Strategic Orientations that Sustain Value," *Strategic Management Society Conference*, Catania, Italy, May 2007
18. "Realizing the Hidden Potential of Maintenance Operations in Capital-intensive Industries Using Critical Chain," *Institute for Operations Research and Management Science*, Pittsburgh, PA, November 2006
19. "Partnership to Maximize Port Industry Performance," *New Jersey Department of Transportation Research Showcase*, Ewing, NJ, October 2006
20. "An Integrative Conceptual Framework for Stakeholder Collaboration in Maximizing Port Industry Performance - the Case of the NY/NJ Region," *Annual Forum of the Transportation Research Forum*, New York, March 2006
21. "Insights from Operations Management for Effective Day-to-Day Living," Bachelor of Technology graduating class at the Indian Institute of Technology, New Delhi, India, January 2003.
22. Chair for Panel Discussion on "Management of Research and Development in the New Millennium", *International Conference on Management of Research and Development*, New Delhi, India, January 2003
23. "The effect of real options reasoning on R&D projects/opportunities evaluation: A simulation-based study", *International Conference on Management of Research and Development (ICMARD)*, New Delhi, India, January 2003

24. "Technology and Crime: An Odd Couple," Rutgers University, NJ, March 2001.
25. "Low-Congestion Routing and Column-Restricted Packing Problems," *INFORMS Telecommunications Conference*, Boca Raton, FL, March 2000.
26. "Divide and Conquer: Rohm and Haas' Response to a Changing Specialty Chemical Market," *Executive Advisory Council, School of Business, Rutgers University*, Haddonfield, NJ, March 2000.
27. "Improving Quality and Operational Efficiency at Rohm and Haas by Customer and Product Segmentation," *POMS International Conference on Operations Management for Global Economy*, New Delhi, India, December 1999.
28. "Crime and Information Technology," *Beta Alpha Psi Annual Meeting*, Camden, NJ, December 1999.
29. "Bringing Quality Awareness to Policing," *Institute for Operations Research and Management Science Conference*, Philadelphia, PA, November 1999.
30. "Benchmarking Quality Among Police Departments," *Institute for Operations Research and Management Science Conference*, Cincinnati, OH, May 1999.
31. "Implementing an Enhanced Distribution Network Model for a Multi-National Specialty Chemical Company," *Decision Sciences Institute Conference*, Las Vegas, NV, November 1998.
32. "An Options-Like Approach to R&D Opportunity/Project Evaluation," *Institute for Operations Research and Management Science Conference*, Seattle, WA, October 1998.
33. "Relocating Businesses in Inner-city Neighborhoods Using AI Software Tool," *Institute for Operations Research and Management Science Conference*, Montreal, Canada, April 1998.
34. "Providing Technical Assistance to City Police Departments Using Artificial Intelligence Case-Based Retrieval Techniques," *Institute for Operations Research and Management Science Conference*, San Diego, CA, May 1997.
35. "Allocation of Resources for Re-vitalization of Inner-City Neighborhoods with Illicit Drug Problem," *International Conference on Operations and Quantitative Management*, Jaipur, India, January 1997.
36. "A Sequential Decision Model for Cracking Down on Drug Markets for Illicit Drugs," *Optimization Days*, Montreal, Canada, May 1996.
37. "Models for Controlling Illicit Drug Sales on Street Corners," *School of Business-Camden, NJ, Seminar Series*, November 1996.
38. "Creating an Environment for Personal Growth: The Challenge of Leading Teams," *A Symposium on Team Leadership, Interdisciplinary Center for the Study of Work Teams, University of North Texas*, Denton, TX, Summer 1995.
39. "Scheduling Crackdowns on Illicit Drug Markets," *Operations Research Society of America/The Institute of Management Sciences (ORSA/TIMS) Conference*, Detroit, MI, October 1994.
40. "Collapsing Street Markets for Illicit Drugs," *Department of Industrial Engineering, University of Louisville*, Kentucky, December 1993.

41. “Optimal Strategies for Drug Crackdowns,” School of Business, *University of New Hampshire*, May 1993.
42. “Optimal Rate of Cracking Down on Illicit Drug Markets,” *School of International and Public Affairs, Columbia University*, New York, March 1992.
43. “Developing Models of Crackdown: An Analysis of Time Varying Enforcement Policies,” *ORSA/TIMS Conference*, Anaheim, November 1991.

WORKING PAPERS

- “Solving the Multi-Level Lot Sizing and Scheduling Problem Using Kin Selection Based Simulated Annealing Algorithm”
- “Collapsing Street Markets for Illicit Drugs: The Benefits of Being Decisive,” Working Paper 89, Heinz School of Public Policy and Management, Carnegie Mellon University

INVITED LECTURES

- “Insights from Operations Management for Effective Day-to-Day Living,” Bachelor of Technology graduating class at the Indian Institute of Technology, Delhi, India, January 2003
- “The effect of real options reasoning on R&D projects/opportunities evaluation: A simulation-based study”, International Conference on Management of Research and Development (ICMARD), New Delhi, India, January 2003
- “How Operations Research Can Contribute to the Public Policy Discussion on the War on Illicit Drugs,” School of International and Public Affairs, Columbia University, December 1993
- “Collapsing Street Markets for Illicit Drugs,” Department of Industrial Engineering, University of Louisville, Kentucky, December 1993
- “Optimal Strategies for Drug Crackdowns,” School of Business, University of New Hampshire, May 1993

EXPERIENCE IN SUPERVISING RESEARCH

- Advisor, PhD Student – Eunseok Kim – 2018 – Present
- Postdoctoral Research Fellow Supervision – Dr. Sayan Mukherjee, 2016- 2017
- Advisor, PhD Student – Theekshana Somaratna, 2016 – 2018
- Independent Study (MBA) – George Karakitsos, “Developing Operational Growth Strategies for Innovative Startup Ventures,” 2013
- Independent Study (MBA) – Michael MacLellan, “Strategic Operations Management: Designing and Planning for Viable and Sustainable Center(s) of Excellence,” 2012
- Independent Study (MBA) – Siddharth Rukmangathan, “Using SAP in enhancing performance in Pharmaceutical Industry”, 2012
- Independent Study (MBA) – Michael Korman, “Strategic Implementations of, and Opportunities That Arise from, Reverse Outsourcing”, 2011

- Independent Study (MBA) – Parikshit Pradhan, “Fleet Management Systems for the Trucking Industry”, 2011
- Independent Study (MBA) – Swetha Soni, “The Capital Asset Pricing Model in the Presence of Differences in Opinions”, 2011
- Independent Study (MBA) – Maureen Gallichio, “Contract Manufacturer relationships as an Enabler for Entrepreneurial Companies”, 2011
- Independent Study (MBA) – Alan Taber, “Solar Thermal Power Plant Modeling”, 2009
- Ph.D. Dissertation Committee Member – Neha Mittal, “Regional Empty Marine Container Management”, 2008
- Independent Study (MBA) – Samir Shah, “Applying the Theory of Constraints and Critical Chain Methodology to Project Management”, 2006
- Independent Study (MBA) – Mathew Gruber, “Capability Analyses for design and manufacture of Transmit/Receive (T/R) Modules in phased array radar antennas”, 2003
- Independent Study (MBA) – Muhammad Fawad Khan, “Learning and Using Microsoft Project Software for Project Management,” 2003
- Independent Study (MBA) – Timothy Nestor, “Study and Analyses of Dynamic Growth of Organizations in an Agile and Competitive Environment”, 2002
- Independent Study (MBA) – Sajit Vartak and Harsh Patel, “Models for Quantitative Analysis of Illicit Drug Addiction”, 2001
- Independent Study (MBA) – James P. Finn, “An Overview of Sequential Modeling for Public Policy Applications”, 2000
- Independent Study (MBA) – Ping-Chu Chen, “Applying AHP to Resource Allocation Decisions”, 1999
- Independent Study (MBA) – Ugur Yilmaz and Kubilay Oner, “Evaluating R&D Resource Allocation Strategies via Discrete Event Simulation”, 1998
- Independent Study (MBA) – Larry Cantwell, “Developing Exemplary Cases for Excel-Based Instruction of Operations Management”, 1998
- Independent Study (MBA) – Anthony J. D’Alessandro, “Supply Chain Analysis for Specialty Chemical Industry”, 1998
- Independent Study (MBA) – Bryan Pennett, “Linking Speed Profiles to Automobile Pollution”, 1996
- Independent Study (MBA) – Steven Mongiardo, “Production Scheduling in Multi-product Batch Pharmaceutical Manufacturing Plants”, 1996
- Master's Thesis - Jay Turnbull, “Enhancing Student Achievement and Management Productivity in Prison Academic Programs: An Information System Approach”, 1994
- Master's Thesis - Pradeep Bandla, “Routing of Aircrafts for Scheduled Maintenance”, 1994

COURSES TAUGHT

- Operations Analysis (G)
- Service Management (UG)
- Operations Management (E, G, UG)
- Supply Chain Management (G)
- Urban Operations Management (G)
- Management Science (G, UG)
- Location Theory (G)
- Facilities Planning (G)
- Total Quality Mgmt (G)
- Discrete Optimization (G)
- Planning for Production (G)
- Advanced Statistical Analysis (UG)
- Introduction to Operations Research (UG)

SUMMARY OF TEACHING STATISTICS AND STUDENT EVALUATIONS

Total Number of Classes/Sections Taught	81
Total Number of Students Taught	2601
Number of Graduate Classes Taught	37
Number of Undergraduate Classes Taught	44
Median Class Size	32
Mean Class Size	31
Median Teaching Effectiveness Rating	4.8/5.0
Mean Teaching Effectiveness Rating	4.7/5.0
Median Course Quality Rating	4.6/5.0
Mean Course Quality Rating	4.5/5.0
Median <i>Prior Interest</i> in Subject Rating	3.6/5.0
Mean <i>Prior Interest</i> in Subject Rating	3.6/5.0

SERVICE AS REVIEWER

- Operations Research
- Naval Research Logistics
- Management Science
- Location Science
- Transportation Science
- IIE Transactions
- Interfaces
- International Journal of Flexible Manufacturing Systems
- Computers and Operations Research
- Socio-Economic Planning Sciences
- Decision Sciences
- European Journal of Operational Research
- Optimal Control Applications and Methods
- North-East Decision Sciences Conference
- Austrian Science Foundation
- Operations Research Spektrum
- Contemporary Drug Issues
- Outside Reader for Ph.D. Dissertations

SERVICE

INTERIM CHAIR, DEPARTMENT OF SUPPLY CHAIN MANAGEMENT, 1/1/2016 – 6/30/2017

1. R-SCM has developed and implemented five-pronged strategic focus areas – Engagement, Expansion, Efficiency, Visibility and Excellence.
2. R-SCM is deepening **engagement** with all our stakeholders – students, parents, alumni, high schools, community, corporations, faculty, funding agencies and university peers.
3. R-SCM is **expanding** its reach in the online space through first SCM MOOCs specialization on Coursera, and through 2 brand new MS programs and making concentrated effort in recruitment of minority/women students and faculty.
4. R-SCM has implemented **efficiency** initiatives including appointment of 2 vice chairs (operations, faculty/strategic), teaching effectiveness coordinator, professional networking coordinator, data management coordinator, teaching effectiveness coordinator, hypermedia specialist, professional skills development coordinator and experiential learning coordinator. These are in addition to the already appointed program directors and coordinators.
5. R-SCM undertook a massive effort in branding and improving its visibility. We created an R-SCM logo that included the following words/phrase to capture R-SCM's identity – "**Rigorous. Relevant. Renowned. The Global Leader in Supply Chain Knowledge**". We have created state-of-the-art thought-leadership/marketing videos, email signatures, presentations. We have created hypermedia content showcasing our accomplishments that have been disseminated to schools, corporations/executives, alumni and prospective/current students.

6. **R-SCM's noteworthy points of excellence:**

Rankings

- a. #5 UG Program in North America, Gartner, 2016 (up from #9 in 2014)
- b. #7 Graduate Program in North America, Gartner, 2016 (up from #11 in 2014)
- c. #7 MBA Program in Manufacturing/Logistics Worldwide, Financial Times, 2017 (unranked in 2016)
- d. Top 10 MBA Program Worldwide, FindMBA, 2017
- e. #11 MBA Program Nationwide, US News & World Report, 2016 (Same as 2015)
- f. #12 Online Graduate Program Nationwide, US News & World Report, 2017 (up from #14 in 2016)
- g. #14 Nationwide, SCM World, 2016 (up from #38 in 2015)
- h. #17 UG Program Nationwide, US News & World Report, 2016 (Unranked in 2015)

Faculty

- a. R-SCM faculty won 11 excellence awards in 2016 (both internal and external)
- b. R-SCM faculty had 31 articles accepted/published in 2016 including 7 FT-50 articles
- c. R-SCM faculty published 2 books and 1 book chapter
- d. R-SCM faculty got grant awards totaling \$2,432,179
- e. R-SCM faculty made 18 Presentations at National Universities and Conferences

Students and Alumni

- a. \$1 Million Hult Prize won by SCM Student Team, Roshni Rides.
 - b. 1st and 2nd place, APICS Northeast District Student Case Competition
 - c. R-SCM Student Member of Team Won 3rd Prize at RBS Pharma Case Competition
 - d. 1st Prize (MBA), Rutgers Big Ten Plus Supply Chain Case Dual Challenge
 - e. R-SCM Student Member of Team Won 1st Prize at NC State Grand Business Challenge Competition
 - f. R-SCM achieves 100% placement and internship for MBA full-time program
 - g. Two R-SCM alums 30 under 30 Rising Supply Chain Stars, ThomasNet and ISM
7. Handled 4 promotion and tenure cases (TT and NTT)
 8. Handled 7 reappointments (TT and NTT)
 9. Conducted 7 annual reviews (TT and NTT)
 10. Conducted 2 rounds of performance reviews (Staff)
 11. Oversaw Hiring of 3 TT and 1 NTT faculty

INTERIM VICE CHAIR, DEPARTMENT OF SUPPLY CHAIN MANAGEMENT, 1/1/2019 – 12/31/2019

1. Wrote the department reports for reappointment cases of 2 tenure-track faculty. Also assisted these faculty in the preparation of their reappointment packets.
2. Wrote the department reports for reappointment cases of 2 non-tenure-track faculty. Also assisted these faculty in the preparation of their reappointment packets.
3. Wrote the department reports for promotion of 7 part-time lecturers. Also assisted these faculty in the preparation of their promotion packets.
4. Assisted with the conceptualization, planning and implementation of the partnership between R-SCM and Rutgers University Procurement Office.
5. Assisted with the crafting of a business minor in sustainability in collaboration with the School of Arts and Sciences - Newark.
6. Assisted with the placement and internships of MBA students
7. Helped recruit new members to the Center for Supply Chain Management Board

ACADEMIC DIRECTOR, RUTGERS CENTER FOR SUPPLY CHAIN MANAGEMENT 2016-2017

1. Made presentations at the center board meeting showcasing the strengths of the department in knowledge creation (research) and dissemination (instruction).
2. Helped with the solicitation and delivery of industry client projects
3. Helped develop promotional materials for the center
4. Helped in crafting the agenda and arrangement of faculty and external speakers for the center board meetings
5. Crafted the structure and materials for the center newsletter
6. Helped in the recruitment of 2 new board members and making connections for 3 more
7. On the search committee for the hiring of center's administrative assistant

OTHER SERVICE CONTRIBUTIONS

- 2021 – Present: RBS Curriculum Redesign Committee, Rutgers Business School
- 2021 – NTT Search Committee, SCM Department, Rutgers Business School

- 2020 – Present: Director of Strategy and Innovation, Department of Supply Chain Management, Rutgers Business School
- 2021: Member, Associate Dean for Development Search Committee, Rutgers Business School
- 2020 – 2021: Member, Rutgers – NB Provost’s COACHE Working Group
- 2020 – Present: Member, Department DBA Coordinator and Member of the Admissions Committee
- 2019 – Present: Member, MSCA Scholarship Award Committee
- 2018 – Present: Member, SCM PhD Admissions Committee
- 2019 – 2020: Member, Online MBA Task Force
- Spring 2020: Member, Non-Tenure-Track Faculty Evaluation Committee
- 2020 (Spring), 2019 (Spring and Fall), 2018 (Spring): Member, RBS A&P Committee
- 2018 – Present: RBS Teaching Methods and Innovations Committee
- 2017 - 2018: Member, SCM Tenure Track Faculty Position Recruitment Committee
- 2015 - Present: Member, RBS Rankings Task Force
- 2015: Member, SCM Faculty Recruiting Committee
- 2015: Member, RBS A&P Committee, Fall 2015
- 2015- Present: Successfully Assist Recruitment of New Board Members for the Center for Supply Chain Management
- 2015: Member of Steering Committee, SCM Career Expo
- 2015: Co-Organized Public-Private-Community Partnership Roundtable: Restart, Sustain and Grow Newark’s Economic Development
- 2015: Co-Organized Rutgers-Newark SCM Meet and Greet
- 2015: Campus-Wide Strategic Plan Implementation Committee
- 2014 – 2015: Chair, Graduate Committee
- 2012 – 2014: Campus-wide Strategic Planning Steering Committee
- 2013: Rutgers-wide Scholar-Teacher and Susman Awards Committee
- 2013 – 2014: Co-Chair, Graduate Committee
- 2012 – 2013: Chair, OM/SCM Faculty Search Committee

- 2009-2010: School of Business Dean Search Committee
- 2009-2010: AACSB Accreditation Task Force
- 2009-2010: International Students' Recruitment and Retention Committee
- 2008 -2009, 2009-2010: Faculty Compensation Program Peer Evaluation Committee
- 2008-2010: Chair, Instructional Resources and Responsibilities Committee
- 2007-2009: Chair, Teaching Awards Committee
- 2009: AACSB seminar – “Enhancing Faculty Effectiveness and Qualifications,”
- 2008-2009: University Advisory Budget Committee; Campus Advisory Budget Committee
- 2008- 2013: Graduate Studies Committee. Redesign/Design of the MBA/PMBA curriculum.
- 2007 - 2008: MBA Healthcare Concentration Taskforce
- 2007 - 2010: Business School Lead for Interdisciplinary Ph.D. program in Public Affairs
- 2005-2008: MBA Taskforce
- 2005-07: MBA Admissions and Scholastic Committee
- 2004-05: Co-Chair of the Graduate Scholastic Standings/Admissions Committee. Assessing and establishing admissions criteria, scholastic standing and reviewing student petitions
- 2001-03: Chair of the Instructional Resources and Responsibilities. Coordinated and conducted an intensive data collection and reporting for the AACSB accreditation. Co-drafted the initial concept document of the “Business Leadership” program for the undergraduate students
- 2003: Reviewer for the Provost’s Teaching Excellence Award
- 2002: Created an extensive, multi-functional, user-friendly database for maintaining, evaluating, and reporting individual/group teaching evaluations for SBC. This was a significant endeavor to streamline monitoring/rewarding teaching evaluations within the School of Business; After rigorous research and benchmarking, created a template for peer teaching evaluation
- 2001: Contributor for the MBA Brochure; Judge for the Rutgers University Academic Challenge for High School Students; Rutgers University Open House Faculty Research Presentation; Reviewer for the Lifetime Teaching Achievement Award Sponsored by the Lindback Foundation
- 2000: Reviewer for the Lifetime Teaching Achievement Award Sponsored by the Lindback Foundation; Served as a Judge for the Rutgers Academic Challenge Competition
- 1999: Campus Representative to the University Subcommittee for Graduate and Professional Education on Database Systems, Rutgers University; Admissions & Public-Relations Committee
- 1998-2003: Faculty Advisor, MBA International Student Association

- 1998: Member of the MBA Brochure Design Team; Campus Representative to the Advisory Council for Continuous Education, Rutgers University
- 1997: Admissions and Public-Relations Committee. Helped in the design of SBC's Webpages
- 1996-98: Team for Revitalizing Inner-City Neighborhoods, New Jersey
- 1996: Presentation, High School Counselors, Rutgers University. To Facilitate Ongoing Cooperation with School of Business Enabling Increased Student Enrollment
- 1995-96: Marketing/Promotions Committee, SBC, Rutgers University; Consultant, City of Camden Police Department, New Jersey; Coordinated development of new course in Quantitative Business for M.B.A. Students, Rutgers University
- 1994-96: Meetings and Discussions with School of Business Executive Advisory Board on Improving School of Business' Visibility
- 1994-95: Member of the M.B.A. Committee, Rutgers University School of Business; Grant Consultant, Sheriff's Department, New Jersey

COVERAGE OF RESEARCH IN NEWS/MEDIA OUTLETS

Harvard Business School Publishing, Supreme Court of the United States, The Wharton School Leadership Forum, Wikipedia, NASA, CBS Radio, The Chronicle of Higher Education, OR/MS Today, NJBiz, Philadelphia Inquirer, Christian Science Monitor, OR/MS Today, Institute of Operations Research and Management Science, Global Technoscan, The Star Ledger, Crime Control Digest, Industrial Engineering, The Buffalo News, India Abroad, The Universal News Network, Washington Examiner, NJ.Com