

Sameer Kumar

1. Academic Rank: Professor of Operations & Supply Chain Management (*tenured*)
CenturyLink Endowed Chair in Global Communications and Technology Management (September 1, 2013)
Qwest Endowed Chair (September 1, 2002 – August 31, 2013)

2. Address:

Office:

Opus College of Business
University of St. Thomas
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3. Degrees:

Ph.D. Industrial Engineering – University of Minnesota, 1994.

M.S. Industrial Engineering & Operations Research –
University of Minnesota, 1990.

M.S. Computer Science – University of Nebraska, 1980.

M.S. Mathematics – University of Delhi, India, 1973.

B.S. Mathematics, Physics & Chemistry –
University of Delhi, India, 1970.

4. Related Experience:

Teaching:

University of St. Thomas

Department of Operations and Supply Chain Management -
Professor and Century Link Endowed Chair in Global Communications and Technology Management
September 1, 2002 –

Taught graduate course in Supply Chain Management, Operations Management, International Operations, Quality Management and undergraduate courses in Advanced Operations Management and Supply Chain Management.

School of Engineering and Technology Management -
Professor of Engineering and Technology Management,
1997 – 2002.

Taught courses in Process Mapping & Improvement Using Computer Based Tools, Supply Chain Synchronization, Manufacturing for Quality and Reliability, Enhanced Product Realization, Manufacturing Scheduling and Industrial Plant Layout, Engineering Economic Analysis and Product Costing, Finite Mathematics, Rigid Body Mechanics, and Deformable Body Mechanics. Research advisor for **21** completed graduate theses in Manufacturing Systems Engineering.

University of Wisconsin – Stout

Department of Industrial Management -
Professor of Industrial and Manufacturing Engineering,
1997 – .

Associate Professor of Industrial and Manufacturing
Engineering, 1994 – 1997.

Taught courses in Quality Engineering, Production/Operations
Management, Decision Theory, Engineering Economy,
Time and Motion Study, and Plant Layout.

Research advisor for 9 completed graduate thesis in Industrial
Engineering.

University of Minnesota

Department of Mechanical Engineering
Adjunct Professor of Industrial Engineering, 1996 – 1998.

Taught Industrial and Mechanical Engineering courses.

University of Nebraska, Lincoln

Departments of Mathematics, Statistics and Computer Science,
Teaching Assistant and Instructor, 1978 – 1980.

Taught undergraduate Mathematics and Computer Science
Courses.

University of Delhi, India

Department of Mathematics and Statistics
Research Fellow, 1973 – 1974.

Involved in Research in the field of Information Theory.

Industrial:

Star Tribune Newspaper. (1990 – 1994) (*Technical Advisor/Specialist*)
Provide technical leadership in identifying, researching and applying new
technology to the manufacturing and distribution businesses, and
developing a vision for integrated systems development. Also, provide
expertise in statistical/quantitative modeling and industrial/manufacturing
engineering techniques for process improvement and systems applications
throughout the company. Some of the significant systems implemented
included Process Monitoring and Control, Equipment Maintenance,
Newsprint Mileage, Newspaper Forecasting, Logistics of Newspaper
Distribution and Manufacturing Scheduling.

Thermo King Corporation. (1982 – 1990) (*Systems Manager*)
Responsible for coordinating design and development of business
operating and decision support systems for planning and operational
management of manufacturing and distribution operations. Major
systems implemented included EDI with Customers and Suppliers,
Spare Parts Management and Distribution System, Interplant
Manufacturing and Distribution System, Facility Layout, Warranty and
Product Costing and Quality.

Toro Company. (1981 – 1982) (*Project/Systems Analyst*)

Responsible for design and development of Finished Goods Distribution System for the corporation. Work included the design of various hierarchical data bases and their integration and user friendly business applications.

Dayton Hudson Corporation. (1980 – 1981) (*Systems Analyst*)

Responsible for design, development of basic stock and big ticket items management systems. The work included creating effective management reporting and real-time interfaces between point of sale terminals and databases located in various departments of the corporation.

State Trading Corporation of India (1976 – 1978) (*Systems Analyst*)

Designed and developed computerized information system for allocation and distribution of chemicals, to national drug manufacturers, imported from various multi-national chemical companies. Also, designed and implemented a computerized information system for export promotion of commodities such as produce, leather goods, machinery, etc.

Department of Agriculture (1974 – 1976) (*Technical Analyst*)

Responsible for statistical analysis of data dealing with crop acreage, market yield, production and food distribution within the country.

5. Consulting:

Have consulted with companies in Systems Modeling, Technology Management, Global Operations and Communications, Logistics, Strategic Quality Management, Process Analysis and Optimization, Service and Manufacturing Systems issues.

6. Research Interests:

Research is based on modeling, optimization, risk and uncertainty, system dynamics and discrete event simulation.

Areas of research interests include – global supply chain management; sustainability and environment; health care delivery systems and health information technology applications; decision analysis; production and service cost economics; and public policy issues dealing with sustainability, risk management, health care, humanitarian logistics, and global trade.

7. Professional Registration/Certifications:

Registered Professional Engineer, State of Minnesota
Certified Manufacturing Technologist, Society of Manufacturing Engineers
Certified Manufacturing Engineer, Society of Manufacturing Engineers
Certified Plant Engineer, Association of Facilities Engineers

8. Publications: Google Scholar – Citations: 14,752; h-index: 59; i10-index: 210

(a) Books

1. Sameer Kumar, “**Connective Technologies in the Supply Chain**”, Auerbach Publications, Taylor and Francis Group, Boca Raton, Florida, 2007, ISBN: 1-4200-4349-8.
2. Sameer Kumar and David Meade, “**Financial Models and Tools for Managing Lean Manufacturing**”, Auerbach Publications, Taylor and Francis Group, Boca Raton, Florida, 2007, ISBN: 0-8493-9185-7.
3. Sameer Kumar and Matthew Zander, “**Supply Chain Cost Control Using Activity Based Management**”, Auerbach Publications, Taylor and Francis Group, Boca Raton, Florida, 2007, ISBN: 0-8493-8215-7.
4. Sameer Kumar and William A Krob, “**Managing Product Life Cycle Management in a Supply Chain Context: A Prescription Based on Empirical Approach**”, Springer, New York, 2005, ISBN: 0-387-23268-0.
5. Sameer Kumar and Promma Phrommathed, “**New Product Development: An Empirical Study of the Effects of Innovation Strategy, Organization Learning and Market Conditions**”, Springer, New York, 2005, ISBN: 0-387- 23271-0.
6. Sameer Kumar, “**Parts Management Models and Applications, a Supply Chain System Integration Perspective**”, Springer, New York, 2005, ISBN: 0- 387-22821-7.
7. Marvin Seppanen, Sameer Kumar and Charu Chandra, “**Process Analysis and Improvement – Tools and Techniques**”, McGraw Hill-Irwin, New York, 2005, ISBN: 0-07-285712-9.

(b) Refereed Journals

Healthcare Service Systems Applications

1. Katsaliaki, K., Kumar, Sameer, Belani, K. G. Machine Learning. A primer for the physician-anesthesiologist of the future. *ASA Monitor*. In press.
2. Galetsi, P., Katsaliaki, K., Kumar, Sameer. Realizing Resilient Global Market Opportunities and Societal Benefits through Innovative Digital Technologies in the Post Covid-19 Era: *A Conceptual Framework and Critical Literature Review*. *IEEE Transactions on Engineering Management*. DOI: 10.1109/TEM.2023.3303080, 2023.
3. Katsaliaki, K., Kumar, Sameer, Belani, K. G. Supply Chain Principles – a Primer for Anesthesiologists. *ASA Monitor*. Vol. 87 (June), pp. 21–23, 2023.
4. Sinha, P., Kumar, S., Chandra, C. Strategies for ensuring required service level for COVID-19 herd immunity in Indian vaccine supply chain. *European Journal of Operational Research*, Vol. 301, No. 1, pp. 339-352, 2023.
5. Galetsi, P., Katsaliaki, K., Kumar, S. Exploring the benefits and ethical challenges of mHealth technology. An analysis of mobile applications for health specialists. *Technovation journal*, Vol. 121,102598, 2023.
6. Katsaliaki, K., Kumar, Sameer. The Past, Present and Future of the Healthcare Delivery System through Digitalization. *IEEE Engineering Management Review*. Vol. 50, No. 4, pp. 21-33, 2022.
7. Katsaliaki, K., Galetsi, P., Kumar, S. Responsible health technology. Are we there yet? The case of mHealth apps for medical practitioners. *IEEE Engineering Management Review*. Vol. 50, No. 2, pp. 165-172, 2022.

8. Galetsi, P., Katsaliaki, K., Kumar, Sameer. Evaluating technology innovation of mobile healthapps for medical professionals. *IEEE Transactions on Engineering Management*. DOI: 10.1109/TEM.2022.3142619, 2022
9. Galetsi, P., Katsaliaki, K., Kumar, Sameer. The medical and societal impact of Big Data Analytics and Artificial Intelligence applications in combating pandemics: A review focused on Covid-19. *Social Science & Medicine*, Vol. 301, 114973, 2022.
10. Galetsi, P., Katsaliaki, K., Kumar, Sameer, Ferguson, M. What affects consumer behavior in mobile health professional diagnosis applications. *Decision Sciences Journal*. <https://onlinelibrary.wiley.com/doi/10.1111/deci.12550>, 2021.
11. Kumar, S., Xu, C., Ghildayal, N., Chandra, C., Yang, M. Social Media Effectiveness as a Humanitarian Response to Mitigate Influenza Epidemic and COVID-19 Pandemic. *Annals of Operations Research*. Vol. 319, pp. 823-851, 2022.
12. Kumar, Sameer, Luo, C. US Adults with Unmet Mental Health Treatment Needs Profiling and Underlying Causes Using Machine Learning Technique, *IISE Transactions on Healthcare Systems Engineering*, Vol. 9. No. 2, pp. 186-199, 2019.
13. Panagiota Galetsi, P., Katsaliaki, K., Kumar, Sameer. Values, Challenges and Future Directions of Big Data Analytics in Healthcare: A Systematic Review, *Social Science & Medicine*. Vol. 241, Article:112533, 2019.
14. Galetsi, P., Katsaliaki, K., Kumar, Sameer. Big Data Analytics in Health Sector: Theoretical Framework, Techniques and Prospects. *International Journal of Information Management*, Vol. 50, pp. 206-216, 2020.
15. Malekpoor, H., Mishra, N., Kumar, Sameer. A novel TOPSIS-CBR Goal programming approach to sustainable healthcare treatment. *Annals of Operations Research*, <https://doi.org/10.1007/s10479-018-2992-y>, 2018.
16. Mishra, D., Kumar, Sameer, Hassini, E. Application of Simulation Modelling Within Disaster Management Context. *Annals of Operations Research*, Vol. 283, pp. 1387-1411, 2019.
17. Kumar, Sameer, Yang, M., Bekx, P. Why Many Diabetic Patients Do Not Take the A1C Test as Recommended? *IISE Transactions on Healthcare Systems Engineering*, Vol. 7, No. 3, pp. 145-154, 2017.
18. Goldschmidt, K., Kumar, Sameer. Reducing the Cost of Humanitarian Operations through Disaster Preparation and Preparedness. *Annals of Operations Research*, Vol. 283, pp. 1139-1152, 2019.
19. Kumar, Sameer, Yang, M., Analyzing Patient Choices for Routine Procedures in US versus Overseas Before and After Affordable Care Act, *Health Systems Journal*, Vol. 5, No. 1, pp. 21-28, 2016.
20. Kumar, Sameer, Ghildayal, N. Markov decision process for comparative economic analysis of immunization strategies against hepatitis A virus. *IEEE Engineering Management Review*, Vol. 44, No. 1, pp. 33-46, 2016.
21. Kumar, Sameer, Southard, P. and White, M. Telemedicine: determining "critical to quality" characteristics for a healthcare service system design based on a survey of physical rehabilitation providers. *IEEE Engineering Management Review*. Vol. 44, No. 2, pp. 41-55, 2016.

22. Kumar, Sameer, Ghildayal, N. and Ghildayal, N. Markov Chain Decision Model for Urinary Incontinence Procedures. *International Journal of Health Care Quality Assurance*. Vol. 30, No. 2, pp. 187-202, 2017.
23. Goldschmidt, K., Kumar, Sameer. Humanitarian operations and crisis/disaster management: A retrospective review of the literature and framework for development. *International Journal of Disaster Risk Reduction*. Vol. 20, December, pp. 1-13, 2016.
24. Mishra, D., Sharma, R.R.K., Kumar, Sameer, Dubey, R. Bridging and buffering: Strategies for mitigating supply risk and improving supply chain performance. *International Journal of Production Economics*. Vol. 180, pp. 183-197, 2016.
25. Kumar, Sameer and Charu, C. Supply Chain Disruption by Avian Flu Pandemic for U.S. Companies – A Case Study, *IEEE Engineering Management Review*, Vol. 44, No. 1, pp. 65-73, 2016.
26. Diaz, R., Behr, J., Kumar, Sameer, Britton, B., A Simulation Framework for Analyzing the Impact of Chronic Disease Management on Ambulatory Healthcare Capacity, *IIE Transactions on Healthcare Systems Engineering*, Vol. 5, No. 4, pp. 268-285, 2015.
27. Katsaliaki, K., Mustafee, N. and Kumar, Sameer, A game-based approach towards facilitating decision making for perishable products: An example of blood supply chain, *Expert Systems with Applications*, Vol. 41, No. 9, pp. 4043-4059, 2014.
28. Kumar, Sameer and Havey, T., Before and After Disaster Strikes: A Relief Supply Chain Decision Support Framework, *International Journal of Production Economics*, Vol. 145, No. 2, pp. 613-629, 2013.
29. Kumar, Sameer and Blair, John T., U.S. Healthcare Fix: Leveraging the Lessons From the Food Supply Chain, *Technology and Health Care Journal*, Vol. 21, No. 2, pp. 125-141, 2013.
30. Kumar, Sameer, Planning for Avian Flu Disruptions on Global Operations A DMAIC Case Study, *International Journal of Health Care Quality Assurance*, Vol. 25, No. 3, pp. 197-215, 2012.
31. Kumar, Sameer, Breuing, R. and Chahal, R., Globalization of Health Care Delivery in the U.S. Through Medical Tourism, *Journal of Health Communication*, Vol. 17, No. 2, pp. 177-198, 2012.
32. Southard, P., Chandra, C. and Kumar, Sameer, RFID in Healthcare: A Six Sigma DMAIC and Simulation Case Study, *International Journal of Health Care Quality Assurance*, Vol. 25, No.4, pp. 291-321, 2012.
33. Kumar, Sameer and Thomas, K., Development of a hospital based menu driven clinician coding tool to implement quality reimbursement process, *Technology and Health Care journal*, Vol. 19, No. 6, pp. 423-434, 2011.
34. Kumar, Sameer and McKewan, Gregory, A Six Sigma DMAIC Quality Study for Expanded Role of Nurse Practitioners in the U.S. for Health Care During and Post Hospitalization, *Journal of Home Health Care Management and Practice*, Vol. 23, No. 4, pp. 271-282, 2011.
35. Kumar, Sameer, Managing Risks in a Relief Supply Chain in the Wake of an Adverse Event, *OR Insight*, Vol. 24, No. 2, pp. 131-157, 2011.

36. Kumar, Sameer, Modeling Patient Flow Operation of a U.S. Urban County Hospital – a Case Study, *Technology and Health Care journal*, Vol. 19, No. 4, pp. 247-260, 2011.
37. Kumar, Sameer and McKewan, Gregory, Practical Insights on Expanding the Role of Nurse Practitioners in the U.S. for Health Care During and Post Hospitalization, *Journal of Home Health Care Management and Practice*, Vol. 23, No. 5, pp. 356-362, 2011.
38. Kumar, Sameer and Nigmatullin, Anvar, Exploring the Impact of Management of Chronic Illnesses through Prevention on the U.S. Healthcare Delivery System - a System Dynamics approach, *Information Knowledge Systems Management*, Vol. 9, pp. 1-26, 2010.
39. Southard, P.B., Kumar, Sameer and Southard, C.A, A Modified Delphi Methodology to Conduct an FMEA: a Patient-centric Effort in a Clinical Medical Laboratory, *Quality Management in Healthcare journal*, Vol. 20, No. 2, pp. 131-151, 2011.
40. Kumar, Sameer and Kwong, A., Six Sigma Tools in Integrating Internal Operations of a Retail Pharmacy – a Case Study, *Technology and Health Care Journal*, Vol. 19, No.2, pp. 115-133, 2011.
41. Kumar, Sameer, Modeling hospital surgical delivery process design using system simulation: optimizing patient flow and bed capacity as an illustration, *Technology and Healthcare Journal*, Vol. 19, No.1, pp. 1-20, 2011.
42. Kumar, Sameer, Ghildayal, N.S. and Shah, R.N., Examining Quality and Efficiency of the U.S. Healthcare System, *International Journal of Health Care Quality Assurance*, Vol. 24, No. 5, pp. 366-388, 2011.
43. Chandra, C, Kumar, Sameer, and Ghildayal, N.S., The Hospital Cost Structure in the U.S.: What’s behind the Costs? – A Business Case, *International Journal of Health Care Quality Assurance*, Vol. 24, No.4, pp. 314-328, 2011.
44. Kumar, Sameer and Prevost, Jill, An Ounce of Prevention: Revenue and Cost Economics of Partnering with Health and Wellness Services, *Journal of Revenue and Pricing Management*, Vol. 10, No. 5, pp. 401-423, 2011.
45. Kumar, Sameer and Aldrich, Krista, Overcoming Barriers to Electronic Medical Records Implementation in the U.S. Healthcare System: A Comparative Study, *Health Informatics*, Vol. 16, No.4, pp. 306-318, 2010.
46. Kumar, Sameer and Chandra, Charu, Supply Chain Disruption By Avian Flu Pandemic For U.S. Companies – A Case Study, *Transportation Journal*, Vol. 49, No. 4, pp. 61-73, Fall 2010.
47. Kumar, Sameer and Thomas, Kory, A Decision Support Tool To Streamline Patient Diagnosis For Chest Pain Utilizing Six Sigma DMAIC and Evidence Based Medicine, *Quality Management in Health Care Journal*, Vol. 19, No. 2, pp. 1-12, 2010.
48. Kumar, Sameer, Livermont, G. and Mckewan, G., Stage Implementation of RFID in Hospitals, *Technology and Health Care Journal*, Vol. 18, No.1, pp. 31- 46, 2010.

49. Kumar, Sameer and Sosinski, Kiera B., Service delivery of care in children who have had strokes: Review of the initial diagnosis and ongoing treatments, *Journal of Pediatric Neurology*, Vol. 7, No. 3, pp. 231-250, 2009.
50. Kumar, Sameer and Bauer, Kenneth F., The Business Case for Implementing Electronic Health Records, *Journal of Revenue and Pricing Management*, Vol. 10, No. 2, 119-131, 2011.
51. Kumar, Sameer, McCalla, Michael and Lybeck, Eric, Operational Impact of Employee Wellness Programs – a Business Case Study, *International Journal of Productivity and Performance Management*, Vol. 58, No. 6, pp. 581-597, 2009.
52. Kumar, Sameer, Niedan-Olsen, Kristin and Peterson, Lynn, Supply Chain Logistics for Humanitarian Efforts in Africa – a Case Study, *International Journal of Productivity and Performance Management*, Vol. 58, No. 5, pp. 480- 500, 2009.
53. Kumar, Sameer Kumar, Honkanen, Erik J. Honkanen and Karl, Chad C., Developing Global Medical Diplomacy Supply Chain – a Viable Option for the U.S. to Curb Extremism, *Journal of Health Communication*, Vol. 14, No. 7, pp. 1-16, 2009.
54. Kumar, Sameer, Specialty Hospitals Emulating as Focused Factories – a Business Operation Model for Improved Efficiency, *International Journal of Healthcare Quality Assurance*, Vol. 23, No. 1, pp. 94-109, 2010.
55. Kumar, Sameer, Swanson, Eric and Tran, Thuy, RFID in the Healthcare Supply Chain – Usage and Application, *International Journal of Health Care Quality Assurance*, Vol. 22, No. 1, pp. 67-81, 2009.
56. Kumar, Sameer, Henseler, Anne and Haukaas, David, HIPAA’s Effects on U.S. Healthcare, *International Journal of Health Care Quality Assurance*, Vol. 22, No. 2, pp. 183-197, 2009.
57. Kumar, Sameer, Dieveney, E. and Dieveney, A., Reverse Logistic Process Control Measures for the Pharmaceutical Industry Supply Chain, *International Journal of Productivity and Performance Management*, Vol. 58, No.2, pp. 188- 204, 2009.
58. Kumar, Sameer, DeGroot, R. and Choe, D., Rx for Smart Hospital Purchasing Decisions: The Impact Of Package Design Within U.S. Hospital Supply Chain, *International Journal of Physical Distribution and Logistics Management*, Vol. 38, No. 8, pp. 601-615, 2008.
59. Kumar, Sameer and Steinebach, Marc, Eliminating US Hospital Medical Errors, *International Journal of Health Care Quality Assurance*, Vol. 21, No. 5, pp. 444- 471, 2008.
60. Kumar, Sameer, Nunne, William H., Measuring Technical Efficiency of Specialty Hospitals in the U.S., *Journal of Revenue and Pricing Management*, Vol. 7, No. 2, pp. 139-152, 2008.
61. Kumar, Sameer and Chandra, Charu, E-Healthcare: A Novelty or a Vehicle for Change, *Industrial Engineer*, Vol. 33, No. 3, pp. 28-33, 2001.

Supply Chain Management (including green and humanitarian)

62. Katsaliaki, K., Kumar, Sameer, Loulos, V. Supply Chain Coopetition: a review of structures, mechanisms and dynamics. *International Journal of Production Economics*, in press.
63. Stekelorum, R., Laguir, I., Gupta, S., Kumar, Sameer, Kumar, S. Pouring-Cement-Down on One of your Oil-Wells: Impacts of the Supply-Chain-Disruption-Orientation on Performance. *Production and Operations Management journal*. <https://doi.org/10.1111/poms.13708>, 2022.
64. Prakash, S., Kumar, Sameer, Soni, G., Jain, V., Gupta, D., Dev, Saty, Chandra, C. An integrated Grey TOPSIS approach to evaluate collaboration approaches under supply chain risk with sustainability for the manufacturing industry. *Benchmarking – an International Journal*. In press.
65. Das, D., Kumar, S., Hui, N., Jan, V., Chandra, C. Pricing and revenue based outsourcing strategies in a multi-echelon lot-sizing model under insufficient production capacity. *Journal of Revenue and Pricing Management*, <https://doi.org/10.1057/s41272-022-00410-w>, 2023.
66. Jain, V., Kumar, Sameer, Mostofi, A., Momeni, M.A. Sustainability performance evaluation of the E-waste closed loop supply chain with the SCOR model. *Waste Management journal*, Vol. 147, pp. 36-47, 2022.
67. Yang, M., Kumar, Sameer, Wang, X., Fry, M.J. Scenario-Robust Pre-Disaster Planning for Multiple Relief Items. *Annals of Operations Research*, <https://doi.org/10.1007/s10479-021-04237-3>, 2021.
68. Siddh, M.M., Kumar, Sameer, Soni, G., Jain, V., Chandra, C., Jain, R., Sharma, M.K., Kazancoglu, Y. Impact of agri-fresh food supply chain quality practices on organizational sustainability. *Operations Management Research*. <https://doi.org/10.1007/s12063-021-00196-x>, 2021.
69. Katsaliaki, K., Galetsi, P., Kumar, Sameer. Supply chain disruptions and resilience: a major review and future research agenda, *Annals of Operations Research*, Vol. 319, pp. 965-1002, 2002.
70. Stekelorum, R., Laguir, I., Gupta, S., Kumar, S. Green supply chain management practices and third-party logistics providers' performances: A fuzzy-set approach. *International Journal of Production Economics*, Vol. 235, 108093, 2021.
71. Bag, S., Gupta, S., Kumar, S., Sivraiah, S. Role of technological dimensions of green supply chain management practices on firm performance. *Journal of Enterprise Information Management*. Vol. 34, No. 1, pp. 1-27, 2021.
72. Prakash, S., Kumar, Sameer, Soni, G., Jain, V., Rathor, APS. Closed loop supply chain network design and modelling under risks and demand uncertainty: An integrated robust optimization approach. *Annals of Operations Research*, Vol. 290, No. 1, pp. 837-864, 2020.
73. Sinha, P., Kumar, Sameer, Prakash, S. Measuring and Mitigating the Effects of Cost Disturbance Propagation in Multi-Echelon Apparel Supply Chains, *European Journal of Operational Research*. Vol. 282, No. 1, pp. 148-160, 2020.

74. Biswas, P., Kumar, Sameer, Jain, V, Chandra, C. Measuring Supply Chain Reconfigurability using Integrated and Deterministic Assessment Models. *Journal of Manufacturing Systems*, Vol. 52, Part A, pp. 172-183, 2019.
75. Gupta, S, Kumar, Sameer, Singh, S, Foropon, C and Chandra, C, Role of Cloud ERP on the Performance of an Organization: Contingent Resource Based View Perspective, *International Journal of Logistics Management*, Vol. 29, No.2, pp. 659-675, 2018.
76. Jain, V., Kumar, Sameer, Soni, U, Chandra, C. (2017). Supply Chain Resilience: Model Development and Empirical Analysis, *International Journal of Production Research*, Vol. 55, No. 22, pp. 6779-6800, 2017.
77. Sakhuja, S., Jain, V., Kumar, S., Chandra, C., Ghildayal, S. K. Genetic algorithm based fuzzy time series tourism demand forecast model. *Industrial Management and Data Systems*, 116(3), 483-507, 2016.
78. Dweiri, F., Kumar, Sameer, Khan, S. A., Jain, V., Designing an integrated AHP based decision support system for supplier selection in automotive industry, *Expert Systems with Applications*. 62, 273-283, 2016.
79. Jain, V., Sameer Kumar, Sameer, Kundu, A., Chandra, C. Linking procurement operations to power-influence in a supply chain. *Journal of Manufacturing Systems*. 41, October, 201-210, 2016.
80. Jain, V., Kumar, Sameer, Kumar, A., Chandra, C. An integrated buyer initiated decision-making process for green supplier selection. *Journal of Manufacturing Systems*. 41, October, 256-265, 2016.
81. Diaz, Rafael, Bailey, Mike, Kumar, Sameer, Analyzing a Lost-Sale Stochastic Inventory Model with Markov-Modulated Demands: A Simulation-based Optimization Study, *Journal of Manufacturing Systems*, Vol. 38, pp. 1-12, 2016.
82. Sakhuja, S., Jain, V., Kumar, Sameer and Chandra, Charu. A Structured Literature Review of Service Supply Chain: Potentials, Challenges and Integrated Framework, *Journal of Academy of Business Education*, Vol. 17, Winter, pp. 270-295, 2016.
83. Kumar, A., Jain, V., Kumar, Sameer, Chandra, C., Green Supplier Selection: A New Genetic/Immune Strategy with Application to Automobile Spare Parts Industry, *Enterprise Information Systems*, Vol. 10, No. 8, pp. 911-943, 2016.
84. Diaz, R., Kumar, Sameer, Behr, J., Housing Recovery in the Aftermath of a Catastrophe: *Material Resources Perspective*, *Computers and Industrial Engineering*, Vol. 81, pp. 130-139, 2015.
85. Kumar, Sameer, Diaz, R., Behr, J., Modeling the Effects of Labor on Housing Reconstruction: *A System Perspective*, *International Journal of Disaster Risk Reduction*, Vol. 12, pp. 154-162, 2015.
86. Panchal G., Jain V., Kumar, Sameer, Multi-dimensional Utility Analysis in a Two Tier Supply Chain, *Journal of Manufacturing Systems*, Vol. 37, pp. 437- 447, 2015.
87. Kumar, Sameer, Yang, M., and Strike, D., Assessing Global Inventory Planning with Enterprise-wide Information for a Large Manufacturer, *Journal of Manufacturing Systems*, Vol. 34, pp. 34-42, 2015.

88. Kundu, A., Jain, V., Kumar, S., Chandra, C., A Journey from Normative to Behavioral Operations in Supply Chain Management: a Review using Latent Semantic Analysis, *Expert Systems with Applications*, Vol. 42, No. 2, pp. 796- 809, 2015.
89. Jain, V., Kumar, A., Kumar, Sameer, Chandra, C., Weight Restriction in Data Envelopment Analysis: A Comprehensive Genetic Algorithm Based Approach For Incorporating Value Judgments, *Expert Systems with Applications*, Vol. 42, No. 3, pp. 1503-1512, 2015.
90. Kumar, Sameer, Heustis, Dawn, and Graham, Jacqueline M., The Future of Traceability within the U.S. Food Industry Supply Chain, *International Journal of Productivity and Performance Management*, Vol. 64, No. 1, pp. 129-146, 2015.
91. Soni, U., Jain, V. and Kumar, Sameer, Measuring supply chain resilience using a deterministic modeling approach, *Computers and Industrial Engineering*, Vol. 74, pp. 11-25, 2014.
92. Jain, V., Panchal G. and Kumar, Sameer, Universal supplier selection via multi- dimensional auction mechanisms for two-way competition in oligopoly market of supply chain, *Omega – International Journal of Management Science*, Vol. 47, No. 1, pp. 127-137, 2014.
93. Kumar, Sameer, A Reliability Analysis Approach to Managing Product Safety and Recalls in a Processed Food Global Supply Chain, *Expert Systems with Applications*, Vol. 41, No. 11, pp. 5323-5339, 2014.
94. Kumar, Sameer, Himes, K. J., Kritzer, C. P. Risk Assessment and Operational Approaches to Managing Risk in Global Supply Chains, *Journal of Manufacturing Technology Management*, Vol. 25, No. 6, pp. 873-890, 2014.
95. Kumar, A., Jain, V. and Kumar, Sameer, A Comprehensive Environment Friendly Approach For Supplier Selection, *Omega – International Journal of Management Science*, Vol. 42, No.1, pp. 109-123, 2014.
96. Kumar, Sameer, Boice, B. and Shepherd, M., Risk assessment and operational approaches to manage risk in global supply chains, *Transportation Journal*, Vol. 52, No. 3, pp. 391-411, 2013.
97. Kumar, Sameer and Nottestad, Dan, Supply Chain Analysis Methodology – Leveraging Optimization and Simulation Software, *OR Insight*, 26(2), 87-119, 2013.
98. Kumar, Sameer Kumar, Choe, David and Venkataramani, Shiv, Achieving Customer Service Excellence Using Lean Pull Replenishment, *International Journal of Productivity and Performance Measurement*, Vol. 62, No.1, pp. 85- 109, 2013.
99. Kumar, Sameer and Chandra, Charu, U.S., Japan and EU Car Industries' Closed Loop Supply Chains – A System Dynamics Study, *Information Knowledge Systems Management*, Vol. 11, No.3-4, pp. 225-254, 2012.
100. Kumar, Sameer, Teichman, Steve and Timpernagel, Tobias, A Green Supply Chain is a Requirement for Profitability, *International Journal of Production Research*, Vol. 50, No. 5, pp. 1278-1296, 2012.

101. Kumar, Sameer and Harrison, G., Expect the Unexpected Supply Chain Disruption and Opportunity for U.S. Companies - a Business Case, *Transportation Journal*, Vol. 51, No. 1, pp. 118-136, 2012.
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242. Kumar, Sameer and Chandra, Charu, Managing Multi-item Single Supplier Inventory System with Random Demands, *International Journal of Physical Distribution and Logistics Management*, Vol. 32, No. 3, pp. 188-202, 2002.
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244. Kumar, Sameer and Arora, Sant, Effects of Inventory Miscounts and Non- inclusion of Lead Time Variability on Inventory System Performance, *IIE Transactions*, Vol. 24, No. 2, pp. 96-103, 1992.
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246. Kumar, Sameer and Arora, Sant, EDI at Thermo King: A Significant Step Toward Achieving JIT, *EDI Forum: Journal of Electronic Data Interchange*, Vol. 3, 1990.
247. Kumar, Sameer and Arora, Sant, Customer Service Effect in Parts Distribution Systems Design, *International Journal of Physical Distribution and Logistics Management*, Vol. 20, No. 2, pp. 31-39, 1990.

Operations / Scheduling

248. Singh, S., Kumar, Sameer. Identifying Disruptions by Covid-19 and Devising Strategies to Build Robust Supply Chain – A Case Study Illustration of India’s Energy Storage Sector. *Benchmarking – an International Journal*, in press.
249. Kumar, Sameer, Marawar, Y., Soni, G., Jain, V., Anand, G., Kodali, R. A hybrid approach to enhance performance of manufacturing organization by optimal sequencing of value stream mapping tools. *International Journal of Lean Six Sigma*, <https://doi.org/10.1108/IJLSS-03-2022-0069>, 2023.

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251. Bag, S., Gupta, S. and Kumar, Sameer. Industry 4.0 adoption and 10R advance manufacturing capabilities for sustainable development. *International Journal of Production Economics*, Volume 231, January, 107844, 2021.
252. Gupta, S., Kumar, Sameer, Kamboj, S., Bhushan, B., Luo, Z. Impact of IS Agility and HR Systems on Job Satisfaction: An Organizational Information Processing Theory Perspective. *Journal of Knowledge Management*, Vol. 23, No. 9, pp. 1782-1805, 2019.
253. Singh, S., Misra, S.C., Kumar, Sameer. Identification and Ranking of the Risk Factors Involved in PLM Implementation, *International Journal of Production Economics*, Vol. 222 (April), pp. 1-11, 2020.
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255. Han, S., Li, C., Kumar, Sameer, Feng, Wei-Xi. The Influence of Senior Executive Support Informatization on Radical Innovation Performance. *Industrial Management and Data Systems*. Vol. 119, No. 4, 821-839, 2019.
256. Kumar, Sameer, Clemens, A., and Keller, E., Supplier Management In a Manufacturing Environment – *A Strategically Focused Performance Score Card*, *International Journal of Productivity and Performance Management*, Vol. 63, No. 1, pp. 127-138, 2014.
257. Kumar, Sameer, "Is Your Supply Chain Business Operation a Good Fit for Online Reverse Auctions?", *Transportation Journal*, Vol. 52, No.1, pp. 121-133, 2013.
258. Kumar, Sameer, Sosnoski, M., Decision Framework for the Analysis and Selection of Appropriate Transfer Pricing For a Global SME Manufacturing Operation – A Business Case, *International Journal of Production Research*, Vol. 49, No. 18, pp. 5431-5448, 2011.
259. Meade, David, Kumar, Sameer and White, Bob, Analyzing the impact of management accounting methods on Lean implementation, *Journal of Operational Research Society*, Vol. 61, No. 5, pp. 858-871, 2010.
260. Kumar, Sameer, Polejewski, S.A. and Ressler, T.H, Leading Cost Accounting Students on a Journey from Naïve Analysis to Realistic Analysis – a Probabilistic Systems Thinking, *Human Systems Management*, Vol. 29, No.1, pp. 11-26, 2010.
261. Meade, David, Kumar, Sameer and Kensinger, Kevin, An Analysis of the Impact of the Pareto Distribution on Product Cost Calculations, *Journal of Manufacturing Systems*, Vol. 27, No. 4, pp. 176-189, 2009.

262. Kumar, Sameer and Sosnoski, M., Using DMAIC Six Sigma to Systematically Improve Shop Floor Production Quality and Costs, *International Journal of Productivity and Performance Management*, Vol.58, No.3, pp.254-273, 2009.
263. Kumar, Sameer and Nottestad, Daniel, Capacity Design – An Application Using Discrete Event Simulation and Designed Experiments, *IIE Transactions*, Vol. 38, No. 9, pp. 729-736, 2006.
264. Kumar, Sameer and Nottestad, Daniel, Integrated Simulation Application Design For Short-term Production Scheduling, *IIE Transactions*, Vol. 38, No. 9, pp. 737-748, 2006.
265. Kumar, Sameer and Hennessey, Michael P., Generalized Multiple Economy Cost of Living Ordinary Annuities from an Interest Theory Perspective, *The Engineering Economist*, Vol. 51, No. 1, pp. 53-71, 2006.
266. Meade, David and Kumar, Sameer, Multi-Month Simulation of a Lean Manufacturing Implementation Program, *NAMRI/SME Transactions*, Vol. 34, pp. 477-484, May 2006.
267. Kumar, Sameer and Turner, Lisa, Real World Real Options: A Tool for Investment Decisions on New Business Ventures in the AEC and Real Estate Development Industries, *International Journal of Electronic Finance*, Vol. 1, No. 1, pp. 68-93, 2006.
268. Kumar, Sameer and Phrommathed, P., Improving a Manufacturing Process by Mapping and Simulation of Critical Operations, *Journal of Manufacturing Technology Management*, Vol. 17, No. 1, pp. 104-132, 2006.
269. Kumar, Sameer and Benusa, Jon, Economic Justification of a Data Acquisition System: A Case Study, *Journal of Cost Engineering*, Vol. 46, No.1, pp. 31-37, 2004.
270. Kumar, Sameer and Kvalheim, Jeffrey, Economics of Equipment Acquisition - A Case Study, *Journal of Cost Engineering*, Vol. 45, No. 10, pp. 26-29, 2003.
271. Kumar, Sameer and Chandra, Charu, Newspaper's CMMS Data Affect Policy, *Journal of Facilities Engineering*, Vol. 27, No. 3, pp. 29-32, 2000.
272. Kumar, Sameer and Arora, Sant, Efficient Workforce Scheduling for a Serial Processing Environment: A Case Study at Minneapolis Star Tribune, *OMEGA, International Journal of Management Science*, Vol. 27, No. 1, pp. 115-127, 1999.
273. Kumar, Sameer and Arora, Sant, Improved Manpower Utilization in Live-run Shift of Newspaper Printing Operations, *IIE Transactions*, Vol. 26, No.2, pp. 62- 75, 1994.

Quality

274. Kumar, Sameer, Ressler, Thomas and Ahrens, Mark, Systems thinking, a consilience of values and logic, *Human Systems Management*, Vol. 24, No. 4, pp. 259-274, 2005.
275. Kumar, Sameer and Bragg, Richard, Managing Relationships with Suppliers To Meet Customer Demands and Achieve Cost Efficiencies, *Quality Progress*, Vol. 36, No.2, pp. 24-30, 2003.

276. Kumar, Sameer and Chandra, Charu, Enhancing the Effectiveness of Benchmarking in Manufacturing Organizations, *Industrial Management and Data Systems*, Vol. 101, No. 1/2, pp. 80-89, 2001.
277. Kumar, Sameer and Jalkio, Jeff, Teaching Mathematics from Application Perspective, *ASEE Journal of Engineering Education*, Vol. 88, No. 3, pp. 275- 279, 1999.

Other Publications

278. Kumar, Sameer and Bragg, Richard, Maintaining Working Relationships with Suppliers to Meet Customer Demands, *Industrial Engineer*, Vol. 35, No. 6, pp. 39-44, 2003.
279. Kumar, Sameer and Gronseth, Mike, The Seagate Story, *QC Focus*, January/February, 2003. (Singapore Quality Institute).
280. Kumar, Sameer and Wellbrock, James, The Challenges of New Product Introduction in a Contract Manufacturing Environment, *Journal of Quality*, Institute of Quality Assurance, UK, July 2003 <http://www.iqa.org/journalofquality/latest.asp>.
281. Kumar, Sameer and Gronseth, Mike, Six Sigma, a Success Story at Seagate, *Quality World, Journal of Institute of Quality Assurance, UK*, Vol. 28, No. 11, pp. 46-49, 2002.
282. Kumar, Sameer and Harms, Ralph, Process Overhaul: The reinvention of a Purchasing department, *APICS – The Performance Advantage*, September, 2001.
283. Kumar, Sameer and Arora, Sant, Implementing TQM in Newspaper Publishing, *Quality News, The Journal of the Institute of Quality Assurance, UK*, May, 1994.

(c) Conference Proceedings:

1. Meade, David and Kumar, Sameer, Multi-Month Simulation of a Lean Manufacturing Implementation Program, Proceedings of 34th Annual North American Manufacturing Research Institutions Conference, Milwaukee, Wisconsin, May 24-26, 2006.
2. Kumar, Sameer and Bragg, Maria, Effective TQM Implementation in a Subcontracting Environment, Southwest Decision Sciences Institute 2003 Annual Conference, March 2003, Houston, Texas.
3. Kumar, Sameer and Mawanda, Ismael, Product Development: Reengineering the Process with Design for X, Southwest Decision Sciences Institute 2003 Annual Conference, March 2003, Houston, Texas.
4. Seppanen, Marvin and Kumar, Sameer, Using Simulation to Teach Business Processes Design and Improvement, WSC 2002, Washington, DC, December 2002.
5. Seppanen, Marvin, and Kumar, Sameer, Experiences in Integrating Computers and Software Tools in Learning Design and Improvement of Business Processes, ICSEE 2002, San Antonio, January 2002.
6. Kumar, Sameer, Effective Supply Chain Using ERP Tools, POMS 2001 Orlando, March 30 – April 2, 2001.
7. Kumar, Sameer, An Overview of 3C, an Alternative to MRP II / ERP for Supply Chain Optimization, POMS 2001 Orlando, March 30 – April 2, 2001.

8. Kumar, Sameer, Technology Development Strategies for Profitability and Compressed Time to Market, PDMA Minnesota Chapter Fall 2000 Conference, St. Paul, Minnesota, November 8, 2000.
9. Chandra, Charu, Kumar, Sameer and Smirnov, Alexander V, E-Management of Scalable Cooperative Supply Chains: Conceptual Modeling and Information Technologies, International Federation of Automated Control (IFAC) Symposium on Manufacturing, Modeling, Management, & Control, July 2000, Patras, Greece.
10. Kumar, Sameer and Jalkio, Jeff, Teaching Mathematics from an Applications Perspective, Proceedings of ASEE 1998 International Conference on Education in Manufacturing, June 28 to July 1, 1998, Seattle, WA.
11. Kumar, Sameer, Walker, John, Jalkio, Jeffrey, and Rehn, Robert, Distance Learning an Enabling Approach in Academia/Industry Partnerships, Proceedings of ASEE 1998 International Conference on Education in Manufacturing, June 28 to July 1, Seattle, WA.
12. Kumar, Sameer, Supply Chain Management, A Passing Fad or a Fundamental Change, proceedings of Production and Operation Management Society's Annual Conference, Santa Fe, NM, March 28 to April 1, 1998.
13. Arora, Sant and Kumar, Sameer, Identification of Common Causes of Failure of Reengineering Projects, Proceedings of the Production and Operations Management Conference (POM) – 97: Integrating POM Research and Practice in the 21st Century, Miami Beach, April 12 – 15, 1997.
14. Kumar, Sameer and Arora, Sant, Study to Enhance Effectiveness of Benchmarking, Proceedings of the Production and Operations Management Conference (POM) – 97: Integrating POM Research and Practice in the 21st Century, Miami Beach, April 12 – 15, 1997.
15. Kumar, Sameer and Schwartz, Assisted Living Research in Wisconsin: What Can We Learn, 2nd Annual Convention of Wisconsin Assisted Living Association, March 4-5, 1997, Waukesha, Wisconsin.
16. Kumar, Sameer and Arora, Sant, Improvements in Maintenance Policy in Newspaper Publishing Operations, Proceedings of 1993 Decision Sciences Institute Annual Meeting, Washington, DC, November 21 – 23, 1993.
17. Kumar, Sameer and Arora, Sant, Study of Bank Design to Meet Changing Demands, Proceedings of 1993 Decision Sciences Institute Annual Meeting, Washington, DC, November 21 – 23, 1993.
18. Kumar, Sameer and Arora, Sant, Designing Bank Warning System Based on Logit Model Fitted to Multi-Period Performance Data, Proceedings of the Fourth Annual Conference of Mid West SAS Users Group, September 12-14, 1993, Indianapolis.
19. Kumar, Sameer and Arora, Sant, Quality and Cost Improvements in Newspaper Publishing Operations Following Deming's Principles, Proceedings of North Central Deming Management Conference, June 2-3, 1992, Minneapolis, Minnesota.

(d) Conference Presentations:

1. Kumar, Sameer. Exploring Benefits and Ethical Challenges in the Rise of Mhealth (Mobile Healthcare) Technology for the Common Good, **INFORMS Conference**, October 15-18, 2023, Phoenix, Arizona
2. Mallick, D., Kumar, Sameer. Impact of Development Tools on Internal Coordination, External Collaboration, and New Product Development Performance, POMS Conference in Orlando, May 21-24, 2023.
3. Yang, M., Kumar, Sameer. Preposition and allocation of critical items for disaster planning, POMS Conference in Orlando, May 21-24, 2023.
4. Kumar, Sameer, Yang, Muer, Chandra, C. Leveraging Social Media to Manage Influenza Pandemics. **2021 Annual POMS Conference Online**. Monday, May 3, 2021.
5. Chaudhury, A., Kumar, Sameer, Luo, Changyue, Mallick, Debasish. Social Media and NPD Performance: Role of Internal Coordination Capability (ICC) and External Collaboration Capability (ECC). **JPIM Research Forum 2019**, Orlando, Florida, November 2-3, 2019.
6. Kumar, Sameer, Luo, Changyue, Mallick, Debasish. Social Media & NPD Performance: Role of Internal Coordination Capability (ICC) and External Collaboration Capability (ECC). **POMS 30th Annual Conference**, May.2019, Washington, DC.
7. Johnson, D., Nottingham, Q., Kumar, Sameer, White, S. SEM Predicting Overall Patient Satisfaction in Rural Healthcare System. **POMS 30th Annual Conference**, May 2019, Washington, DC.
8. Goldschmidt, K., Kumar, Sameer. Preparing for Disasters: Does Investment in Disaster Preparation Mitigate Response Requirements. **POMS 30th Annual Conference**, May 2019, Washington, DC.
9. Luo, C., Kumar, Sameer, Mallick, D. Impacts of Exploration and Exploitation on Performance and Moderating Effects of Slack: A Panel Data Analysis. **DSI 49th Annual Conference**, November 2018, Chicago.
10. Kumar, Sameer, Yang, Muer, Goldschmidt, K. Will Aging Voting Machines Cause More Voters to Wait Long?, **INFORMS Annual Conference**, November 2017, Houston, Texas.
11. Goldschmidt, K., Kumar, Sameer, Sanders, J., White, S. Managerial Quality Decisions Pre and Post Product Launch, **POMS Annual Conference**, May 6, 2017, Seattle.
12. Kumar, Sameer, Yang, Muer, Bekx, Paul (2016) Why Diabetes Patients Do Not Take A1c Test Quarterly, 2016 **INFORMS Conference** in Nashville, Tennessee in November, 2016.
13. Yang, M., Kumar, S., Strike, D., "Modeling business value of global planning at 3M Company," **OCB Faculty Research Symposium**, Minneapolis, Minnesota. (April 2014).
14. Kumar, S., Southard, P. B., "Telemedicine: A critical-to-quality survey study," **DSI - Decision Sciences Institute**, Baltimore, Maryland. (November 18, 2013).

15. Yang, M., Kumar, S., Strike, D., "Modeling business value of global planning at 3M Company," INFORMS - Institute for Operations Research and Management Sciences, Minneapolis, Minnesota. (October 2013).
16. Kumar, S., "Exploring impact of management of chronic illnesses through prevention on U.S. healthcare system," INFORMS - Institute for Operations Research and Management Sciences, Minneapolis, Minnesota. (October 9, 2013).
17. Kumar, Sameer and Southard, P, Knowledge Innovation with RFID and HIT to Improve Operating Room Processes, Annual DSI meeting, San Francisco, November 17 -20, 2012
18. Kumar, Sameer and Yang, Muer, Strategic Sourcing of Medical Services to India and its Impact on Healthcare Delivery Costs in the United States, INFORMS Annual Conference, Phoenix, October 13-16, 2012.
19. Kumar, Sameer, Closed Loop Supply Chains for U.S., Japan and EU Auto Industries A System Dynamics Study, 2012 POMS Annual Conference, Chicago, April 20 to April 23, 2012.
20. Kumar, Sameer and Southard, P. Capital Investment Decisions in Healthcare Using a Technology Function Deployment Framework, 42nd DSI Annual Meeting, Boston, November 19-22, 2011.
21. Kumar, Sameer, New Product Development: Impact of Innovation Strategies, Organization Learning and Market Condition, invited session on New Product Development Research for the 2005 POMS Conference, Chicago, April 29-May 2, 2005.
22. Kumar, Sameer, Globalization: A Supply Chain Perspective, Globalization at a Crossroads Conference, Minneapolis, March 8-9, 2002.
23. Kumar, Sameer and Arora, Sant, A Model for Optimal Frequency of On-site Bank Examination, ORSA/TIMS Conference, Phoenix, November 1-3, 1993.

(e) Manuscripts Under Review:

Supply Chain Management

1. Yang, M., Kumar, Sameer, Wang, X., Fry, M.J. Prepositioning Relief Supplies under Uncertain Uncertainty. *Production and Operations Management journal*, revise and resubmit.
2. Laguir, I., Stekelorum, R., Gupta, S., Kumar, S., Modgil, S. Supply chain dynamism, exploitation and exploration towards sustainable performance. *Production Planning and Control*, revise and resubmit.
3. Kumar, Sameer, Dey, I., Ramtiyal, B., Soni, G., Vijayvargy, L., Chandra, C. An Empirical Investigation of Traceability Technology adoption: A Case of Perishable Products Supply Chains. *International Journal of Logistics Management*.
4. Singh, G., Singh, S., Kumar, Sameer, Sharma, J.P. Prioritizing the enablers of Digital Twin in food supply chain to prevent food waste: A grey influence analysis. *Annals of Operations Research*.

Operations

5. Fu, Y., Han, S., Gupta, S., Kumar, Sameer. Product Design for Recycling under Different Licensing Fee Schemes. *International Journal of Production Economics*.
6. Laguir, I., Stekelorum, R., Gupta, S., Kumar, S. An examination of management control systems and environmental uncertainty as complements to circular economy: A fuzzy-set approach, *British Accounting Review*.

7. Luo, C., Kumar, S., Mallick, D. N. Impact of NPD tools on internal and external collaboration and NPD performance. *Production and Operations Management*.
8. Gupta, S., Modgil, S., Kumar, Sameer, Kar, A.K. 3D Printing Driven Service Innovation for Sustainable and Affordable Housing. *International Journal of Production Research*.
9. Fu, Y., Han, S., Gupta, S., Kumar, Sameer. Product Design for Recycling under Different Licensing Fee Schemes. *Annals of Operations Research*.

Healthcare Systems Applications

10. Galetsi, P., Katsaliaki, K., Kumar, Sameer. Market Opportunities for Innovative Digital Applications in the Post Covid-19 Period. *IEEE Engineering Management Review*.

9. Workshops/Seminar Presentations:

1. Presented a seminar on Managing the Health Care Supply Chain: trends, issues and applications from a system's perspective in the Environmental Health Sciences Division, School of Public Health, University of Minnesota, Minneapolis, September 14, 2011.
2. Presented 3 hour seminar on Supply Chain Excellence as part of Mini Manufacturing Masters in Spring, 2002.
3. Chair for POMS 2001 Orlando (March 30 – April 2, 2001) session on ERP titled “ERP: Tools, Methods, and Applications for Supply Chain Integration”.
4. Presented 3 hour seminar on Supply Chain Excellence as part of Mini Manufacturing Masters in Fall, 2000.
5. Presented a 1-day industry workshop on Job Shop Costing in Fall, 1999 through Department of Manufacturing Systems and Engineering.
6. Presented a 1-day industry workshop on Facility Layout in Fall, 1999 through Department of Manufacturing Systems and Engineering.
7. Presented 3 hour seminars on Supply Chain Excellence as part of Mini Manufacturing Masters in Fall, 1999 and Spring, 2000.
8. Presented a 3 hour seminars on Supply Chain Management as part of Mini Technology Masters in Fall, 1999 and Spring, 2000.
9. Moderated SME Chapter Conference on Supply Chain Forum on March 25, 1999 in Minneapolis, Minnesota.
10. Presented three seminars on Supply Chain Excellence, Enhanced Product Realization and Engineering Economic Analysis at Fourth Shift Corporation, Minneapolis on March 24, April 7 and April 14, 1999.
11. Invited to present a seminar on Supply Chain Management in a graduate course in Strategic Quality Management, November 9, 1998.
12. Invited to present a seminar on Total Process Management in a graduate course in Strategic Quality Management, November 23, 1998.
13. Presented four seminars in mini Masters certificate during 1998-1999 (one customized session for Seagate Technology) on Supply Chain Synchronization.
14. Presented a 1-day industry workshop on Industrial Plant Layout on October 16, 1998 through University of St. Thomas Management Center.
15. Presented a 1-day industry workshop on Product Costing on October 6, 1998 through University of St. Thomas Management Center.

16. Presented four seminars in mini Masters certificate during 1997-1998 (one customized session for Seagate Technology) on Supply Chain Synchronization through University of St. Thomas Management Center.
17. Presented two different workshops on Integrated Manufacturing at Ultrapak, Rogers, Minnesota and Beckman Instruments, Eden Prairie, Minnesota in December 1, 1997 and February 5, 1998.
18. Presented a seminar on 3M TV on Balanced Scorecard and Performance Measurement on May 15, 1998.
19. Presented a seminar "A Model for Risk Classification of Banks", October 8, 1997, a colloquium sponsored by the Center for Applied Mathematics, University of St. Thomas, St. Paul, Minnesota.
20. Invited to speak on "Engineering Economy and Management" in March, 1996 by the twin cities Association of Facilities Engineers Chapter, Minneapolis, Minnesota.
21. Presented a 1-day industry workshop on Industrial Plant Layout on October 22, 1999 through University of St. Thomas Management Center.
22. Presented two seminars on Supply Chain Synchronization, one as part of Mini Technology series and the other as part of Mini Manufacturing Series on October 20 and October 23, 1999.

10. Grants:

- a. Principal Investigator on NSF proposal, "SHB: Type I (EXP): Collaborative Research: Use of Monitoring Technologies to Improve Care of Residents in Assisted Living Facilities" (Program: Smart Health and Wellbeing (NSF 12-512), February 6, 2012 (Amount: \$550,000). (not awarded)
- b. Principal Investigator on NSF/AHRQ proposal, "Knowledge Innovation with RFID and HIT to Improve OR Processes" (Program: Advancing Health Services through System Modeling Research (NSF 12-515), February 15, 2012 (Amount: \$550,000). (not awarded)
- c. Senior Research Personnel on PHS 2012-02 Omnibus Solicitation of the NIH for Small Business Technology Transfer Grant Applications (Parent STTR [R41/R42]) for the project "Three Dimensional Digital Dental Simulation System", April 1, 2012 (Amount: \$225,000). (not awarded)
- d. Project Director on Robert Wood Johnson Foundation proposal, "A Pilot Project for Evidence-Based Health Care Operation" (Program: Changes in Health Care Financing and Organization), September 2003 (Amount: \$255,000). (not awarded)
- e. Project Co-Director on National Science Foundation Computer Science, Engineering, and Mathematics Scholarships (CSEMS), May 1, 2001 (Amount: \$420,000 (\$105,000 / year). (Awarded)
- f. Collaborator on a grant titled, "On Systems Theoretic Methodological Constructs for Scalable Cooperative," submitted to National Science Foundation on Exploratory Research on Scalable Enterprise Systems in December, 1999 (Amount: \$100,000). (Not awarded)
- g. Received \$250,000 Manufacturing Education Plan grant funding for improving laboratories and teaching from SME and Medtronic during years 1998 and 1999.
- h. Principal coordinator on a grant titled, "Digital Product Life Cycle Project," submitted to Medtronic and Guidant on exploratory research in Process Modeling and Product Innovation in May, 2000 (Amount: \$210,000 each). (Not awarded)

- i. At the University of Wisconsin-Stout, received \$100,000 Wisconsin Higher Education Research grant funding for the period 1995-1996.
 - As part of the grant, developed a technical report with Paul Schwartz and Mehar Arora on “*Integration of Assistive Technology, Operational Management and Human Factors Engineering into the Operations of Assisted Living Facilities*”, University of Wisconsin – Stout, 1996.

11. Editorial Boards/Editor/Reviewer:

- a. Series Advisor of “***Supply Chain Integration: Modeling, Optimization and Applications***” for Taylor and Francis Auerbach Group.
- b. Associate Editor, *Decision Sciences*.
- c. Associate Editor, *Journal of Manufacturing Systems*.
- d. Associate Editor, *International Journal of Health Care Quality Assurance*.
- e. Guest Editor for the special issue of *International Journal of Manufacturing Technology and Management* on “Connective Technologies and Their Impact on Manufacturing and Logistics”, 2006.
- f. Associate Guest Editor for the special issue of *Journal of Operations Management* on “Coordinating Product Design, Process Design and Supply Chain Design Decisions”, 2004.
- g. Member of Editorial Boards: *Journal of Global Operations and Strategic Outsourcing*; *Supply Chain Forum – an International Journal*; *International Journal of Logistics Economics and Globalisation*; *Technovation*; *International Journal of Sustainable Economy*; *Industrial Management and Data Systems*; *International Journal of Health Care Quality Assurance*.
- h. Reviewed manuscripts for *International Journal of Physical Distribution and Logistics Management*; *Supply Chain Management: an International Journal*; *Supply Chain Management – an International Journal*; *Supply Chain Forum – an International Journal*; *Journal of Business Logistics*; *International Journal of Production Research*; *European Journal of Operational Research*; *IISE Transactions*; *Journal of Operations Management*; *Production and Operations Management Journal*; *Journal of Global Operations and Strategic Outsourcing*; *International Journal of Operations and Production Management*; *Journal of Manufacturing Technology Management*; *Journal of Operational Research Society*; *The Engineering Economist*; *OMEGA, the International Journal of Management Science*; *International Journal of Technology Management*; *Technology Policy*; *Research in Engineering Design*; *Industrial Management and Data Systems*; *Journal of Academy of Business Education*; *Journal of International Technology and Information Management*; *e-Government Journal*; *Journal of Data Sciences*; *Decision Support Systems*; *International Journal of Health Care Quality Assurance*; *Journal of Engineering Education*.

12. Service to University:

University of St. Thomas (UST)

1. *Research Mentor and Advisor to Faculty Members in Operations and Supply Chain Management Department for peer-reviewed publications (ongoing)*
2. *Undergraduate Business Student Advisor (ongoing)*
3. *Chair of 3M Endowed Chair in Global Business Promotion Committee (2009-2010, 2011-2012)*
4. *Member of Opus College of Business Dean’s Search Committee (2012-14).*
5. *Member of four Accounting Associate Professors Promotion Committees (2011-13).*

6. *Chair of two Engineering Associate Professors Promotion Committees (2012-13).*
7. *Chair of Susan Heckler Endowed Chair in Management Promotion Committee (2011-12).*
8. *Chair of Haggerty Endowed Chair in Finance Search Committee (2011-2012).*
9. *Chair of Decision Sciences Department Chair Search Committee (2008-2009).*
10. *Chair of College of Business Faculty Research Promotion Committee (2003 – 2007).*
11. *Chair of Opus Family Business Endowed Professorship Search Committee (2006-07).*
12. *Member of School of Entrepreneurship Endowed Professorship Search Committee (2006-07).*
13. *Chair of Operations Management faculty tenure and promotion committees (2005-06, 2006-07, 2010-2011, 2011-2012).*
14. *Chair of Operations Management faculty search committee (2002-03, 2003-04, 2005-06, 2006-07, 2007-08, 2009-2010, 2010-2011).*
15. *Member of University Faculty Tenure and Promotion committee (2004- 2008).*
16. *Chair of College of Business International UST MBA Program Development Task Force.*
17. *Chair of 3M Professor of Global Strategy and Management tenure committee, 2003-2004.*
18. *Chair of Global Technology Management Chaired Professor's tenure committee, 2002-2003.*
19. *Member of Engineering and Technology Management Department Chair's Promotion to Full Professor committee.*
20. *Member of mid-tenure evaluation committee for Operations Management Faculty, 2002-2003.*
21. *Member of University Senate (1997-2001), Faculty Development (1998-2001) and Graduate Programs and Policy (1999-2001), Department Curriculum, Laboratories and ABET Committees (1997-2002).*
22. *Student Chapter Advisor for SME and ASME (September 1997 – May 2001).*
23. *Director of Graduate Studies in the School of Engineering and Technology Management, University of St. Thomas (September 1997 – June 2002).*
24. *Developed an M.S. in Technology Management program started in Fall 1998.*
25. *Member of Global Technology Management Chaired Professorship Search Committee, January – August, 1998.*
26. *Member and Chair of Mechanical Engineering Faculty Search Committee, September, 1998 - May, 1999, September, 1999 – May, 2000 and September, 2001 – May, 2002 respectively.*

University of Wisconsin – Stout

1. *Member of various university committees: Faculty Senate, Engineering Program, Curriculum and Instruction, Educational Activities, University Library, Positive Action, Optimal Health Advisory, Campus Physical Development, department focus group on Computer Applications.*
2. *Plant Engineering Concentration Coordinator and AFE Student Chapter Advisor.*
3. *Participated in Industrial Management Department hiring of 3 new faculty members.*
4. *Reviewed 3 Faculty Research Initiative Grant Proposals in Spring/Fall, 1996.*

13. Scientific and Professional Society Memberships:

AcademyHealth
 American Medical Informatics Association
 Association of Supply Chain Management (ASCM)
 American Public Health Association (APHA)
 Association of Facilities Engineers (AFE)
 Council of Supply Chain Management Professionals (CSCMP)

Decision Sciences Institute (DSI)
Institute of Industrial Engineers (IIE) – Senior Member
IEEE Society – Senior Member
Institute for Operations Research and Management Science (INFORMS)
International Information Management Association (IIMA)
Production and Operations Management Society (POMS)
Society of Manufacturing Engineers (SME)
Royal Society of Medicine, UK.

14. Honors and Awards:

1. Listed among the top 2 percent of the most-cited scientists in Business and Management field of the Worlds nearly 7 million working scientists in more than 200 fields of scientific research according to a 2022 study by Stanford scholars.
2. John Ireland Presidential Professor for Outstanding Achievement as a Teacher / Scholar in 2013 at the University of St. Thomas.
3. OMEGA, International Journal of Management Science Best Reviewer Award 2013.
4. The OR Society 2010 Goodeve Medal.
5. Affiliate Graduate Faculty of Institute for Health Informatics, University of Minnesota since July, 2011.
6. CenturyLink Endowed Chaired Professorship in Global Communications and Technology Management, September 1, 2013. It was Qwest Endowed Chair from September 1, 2002 to August 31, 2013.
7. Received meritorious annual faculty performance evaluation every year during the twenty-six-years tenure (1997-2022) at the University of St. Thomas.
8. Recipient of 2000 Medtronic Customer-Focus Quality Star of Excellence award.
9. Recipient of Cowles Media Company President’s Award at Star Tribune Newspaper.
10. Recipient of Special President Award at Thermo King Corporation.
11. Nominated for Westinghouse Information Systems Advisory Council Award for recognition of developing innovative applications of information and communications technology and in support of total quality.

15. Invited Talks at the University of Minnesota (Fall, 2011 – Spring 2013)

1. Supply Chain Disruption By Avian Flu Pandemic For U.S. Companies, *Division of Environmental Health Sciences, School of Public Health, September 14, 2011.*
2. Exploring the Impact of Management of Chronic Illnesses through Prevention on the U.S. Healthcare Delivery System – a Closed Loop System’s Modeling Study, *Institute for Health Informatics, October 27, 2011.*
3. Managing the Health Care Supply Chain, *Industrial and Systems Engineering Department, February 8, 2012.*
4. RFID in healthcare: a Six Sigma DMAIC and simulation case study, *Institute for Health Informatics, January 24, 2013.*

Course and Instructor Evaluations at University of St. Thomas

<u>Year</u>	<u>Semester</u>	<u>Department</u>	<u>Course#</u>	<u>Title</u>	<u>Course</u>	<u>Instructor</u>
97	Fall	MATH	101	Finite Mathematics	3.73	4.55
97	Fall	MMSE	740	Supply Chain Synchronization	3.33	3.17
97	Fall	MMSE	655	Manufacturing for Quality and Reliability	4.40	4.40
98	Spring	MATH	101	Finite Mathematics	4.28	4.72
98	Spring	MMSE	661	Engineering Economic Analysis and Product Costing	4.46	4.85
98	Spring	MMSE	720	Enhanced Product Realization	4.14	4.29
98	Fall	ENGR	220	Engineering Mechanics I (Rigid Body Mechanics)	3.89	4.11
98	Fall	MMSE	603	Manufacturing Scheduling and Industrial Plant Layout	4.50	4.50
98	Fall	MMSE	740	Supply Chain Synchronization	4.06	4.22
99	Spring	ENGR	221	Engineering Mechanics II (Deformable Body Mechanics)	4.20	4.53
99	Spring	MMSE	720	Enhanced Product Realization	4.11	4.44
99	Fall	MMSE	661	Engineering Economics	4.50	5.00
99	Fall	ENGR	220	Engineering Mechanics I	4.50	4.85
99	Fall	MATH	101	Finite Mathematics	4.04	4.63
00	Spring	ENGR	221	Engineering Mechanics II	4.50	4.89
00	Spring	MMSE	720	Enhanced Product Realization	3.91	4.36
00	Spring	MMSE	740	Supply Chain Synchronization	4.33	4.56
00	Fall	ENGR	220	Engineering Mechanics I	4.10	4.60
00	Fall	MMSE	740	Supply Chain Synchronization	4.33	4.50
00	Fall	MMSE	850	Process Analysis – Tools & Techniques	4.00	4.33
01	Spring	ENGR	221	Engineering Mechanics II	4.11	4.72
01	Spring	MMSE	720	Enhanced Product Realization	4.31	4.62
01	Spring	MATH	101	Finite Mathematics	4.08	4.68
01	Fall	ENGR	220	Engineering Mechanics I	4.06	4.81
01	Fall	MMSE	661	Engineering Economics	4.60	4.60
01	Fall	MMSE	850	Process Analysis – Tools & Techniques	4.56	4.44
02	Spring	ENGR	221	Engineering Mechanics II	4.16	4.63
02	Spring	MMSE	740	Enhanced Product Realization	4.16	4.65
02	Spring	MATH	101	Finite Mathematics	4.35	4.90
02	Fall	INOP	700	International Operations	4.08	4.43
03	Spring	INOP	700	International Operations	4.40	4.60
03	Fall	INOP	700	International Operations	4.00	4.40
04	Spring	MGMT	445	Adv. Operations Management	4.40	4.90
05	Spring	MKTG	750	Supply Chain Management	4.20	4.50
05	Fall	MGMT	620	Operations Management	4.33	4.44
06	Spring	MKTG	750	Supply Chain Management	4.11	4.56
06	Fall	DSCI	610	Operations Management	4.83	5.00
07	Spring	MKTG	750	Supply Chain Management	4.14	4.43

(continued)

Course and Instructor Evaluations at University of St. Thomas

<u>Year</u>	<u>Semester</u>	<u>Department</u>	<u>Course #</u>	<u>Title</u>	<u>Course</u>	<u>Instructor</u>
07	Fall	MKTG	610	Operations Management	3.75	4.14
07	Fall	DSCI	630	Quality Management & Six Sigma	4.00	4.38
08	Spring	MKTG/DSCI	750	Supply Chain Management	4.30	4.55
08	Fall	DSCI	610	Operations Management	4.48	4.71
09	Spring	DSCI/MKTG	750	Supply Chain Management	4.52	4.62
09	Fall	DSCI	350	Supply Chain Management	4.5	4.5
10	Spring	OPMT/MKTG	750	Supply Chain Management	3.5	3.9
10	Fall	OPMT	350	Supply Chain Management	4.2	4.6
11	Spring	OPMT/MKTG	750	Supply Chain Management	4.6	4.8
11	Fall	OPMT	350	Supply Chain Management	4.2	4.3
12	Spring	OPMT/MKTG	750	Supply Chain Management	4.2	4.2
12	Fall	OPMT	350	Supply Chain Management	4.5	4.7
13	Spring	OPMT	750	Supply Chain Management	4.1	4.3
13	Fall	OPMT	350	Supply Chain Management	4.1	4.3
14	Spring	OPMT	350	Supply Chain Management	4.4	4.6
14	Fall	OPMT	350	Supply Chain Management	3.6	3.6
15	Spring	OPMT	350	Supply Chain Management	4.3	4.52
15	Fall	OPMT	350	Supply Chain Management	4.4	4.6
16	Spring	OPMT	350	Supply Chain Management	4.3	4.5
16	Fall	OPMT	350	Supply Chain Management	4.2	4.2
17	Spring	OPMT	350	Supply Chain Management	3.8	4.1
17	Fall	OPMT	350	Supply Chain Management	3.9	4.0
18	Spring	OPMT	350	Supply Chain Management	4.1	4.2
18	Fall	OPMT	350	Supply Chain Management	3.8	4.1
19	Fall	OPMT	350	Supply Chain Management	4.2	4.4
20	Spring	OPMT	350	Supply Chain Management	4.3	4.5
20	Fall	OPMT	350	Supply Chain Management	4.6	4.6
21	Spring	OPMT	350	Supply Chain Management	4.6	4.8
21	Fall	OPMT	350	Supply Chain Management	4.2	4.1
Average					4.21 / 5.00	4.48 / 5.00
Standard Deviation					0.28	0.31

Instructor Evaluations at University of Wisconsin - Stout

<u>Year</u>	<u>Semester</u>	<u>Course Number</u>	<u>Title</u>	<u>Instructor</u> (2500 Max)
94	Fall	150-200	Production/Operations Management	2104
95	Spring	150-550	Plant Layout	2041
95	Spring	150-200	Production/Operations Management	2031
95	Summer	150-540	Time & Motion Study	2170
95	Fall	150-740	Decision Theory	2450
95	Fall	150-422	Quality Engineering	2105
95	Fall	150-200	Production/Operations Management	2168
95	Fall	150-200	Production/Operations Management	2144
96	Spring	150-740	Decision Theory	2450
96	Spring	150-422	Quality Engineering	2302
96	Spring	150-200	Production/Operations Management	2180
96	Spring	150-200	Production/Operations Management	2219
96	Summer	150-200	Production/Operations Management	2236
96	Fall	150-740	Decision Theory	2334
96	Fall	150-422	Quality Engineering	2169
97	Spring	150-200	Production/Operations Management	2180
97	Spring	150-422	Quality Engineering	2229
Average				2206.59
				4.41 / 5.00
Standard Deviation				120.94 (0.24)