

## S. VISWANATHAN

### CV HIGHLIGHTS



Professor “Vish” Viswanathan obtained a Ph.D. in Operations Research with minor in Operations Management from Case Western Reserve University in 1992, MBA (Gold Medallist) from Indian Institute of Management Calcutta in 1986, and B.Tech (Mechanical Engineering) from Indian Institute of Technology Madras in 1984. He has been a faculty member at the Nanyang Business School, Nanyang Technological University, Singapore for 28 years. He has taught previously at Cox School of Business, Southern Methodist University in Texas.

Currently, he is Professor of Operations Management at Nanyang Business School. He also serves as the Director of the Centre for Business Sustainability. He has previously served as Associate Dean (Research), Head of the Division of Information Technology & Operations Management (ITOM), Director of the PhD Program, Program Director of MBA specialization in Technology & Operations and Programme Director of MDP@Nanyang. Prior to entering academia, Vish worked as an Operations Auditor and as an IT Software Specialist.

Vish was a member of the team responsible for the curriculum design and redesign of the full-time MBA into a one-year MBA program. As Head of ITOM, he was involved in developing the initial curriculum for the MSc (Technology Management) segment of the Renaissance Engineering Programme. He was the founding Programme Director of the NTU-Waseda double MBA program and was involved in developing the curriculum for the NTU-Waseda double MBA and the MBA (Technology & Operations) curriculum. He was also involved in developing the curriculum for the Management Development Program @ NTU, as its Founding Programme Director.

Vish’s research interests are in Inventory Management, Joint Replenishment Inventory Systems, Corporate Sustainability, Sustainable Operations, Closed Loop Supply Chain, Manufacturing Systems, Transportation & Urban Mobility, and Optimization. His teaching interests are in Corporate Sustainability, Operations & Supply Chain Management, Inventory Theory, and Optimization. He currently teaches in the Masters, PhD, MBA and Executive Programs.

His research has been published in Financial Times and Business Week ranked top tier Business journals such as *Management Science*, *Operations Research*, *Production & Operations Management*, and *Journal of Operations Management*; and other top journals such as *International Journal of Production Research*, *European Journal of Operational Research*, *Naval Research Logistics*, *IIE Transactions*, *Operations Research Letters*, *Journal of the Operational Research Society*, *International Journal of Production Economics*, *Integrated Manufacturing Systems*, *International Journal of Technology and Management*, *International Journal of Logistics*, and *International Journal of Physical Distribution & Logistics Management*.

He has served (or is serving) as Senior Editor, Editorial Board Member, or Associate Editor in top journals such as *Decision Sciences*, *Production & Operations Management*, *Journal of Operations Management*, *IEEE Transactions in Automation Science & Engineering*, and *International Journal of Production Research*. He has made several appearances in Who’s who in the World, Who’s Who in Asia, Who’s Who in Finance and Industry and Who’s Who in Science and Engineering lists. He was selected for the Albert Nelson Marquis Lifetime Achievement Award in 2017. He was awarded the prestigious Nanyang Award for Research Excellence in 2010.

**CONTACT ADDRESS**

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Tel: +65-6790-4798(Work).

email: [asviswa@ntu.edu.sg](mailto:asviswa@ntu.edu.sg)

**PERSONAL PARTICULARS**

- Date of Birth: June 17, 1962.
- Nationality: Singapore.
- Marital status: Married, 2 children (23 and 25).

**EDUCATION**

1992	Ph.D, Operations Research with Minor in Operations Management, <b>CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, U.S.A</b>
1990	<i>MS in Management Science</i> <b>CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, U.S.A</b>
1986	MBA (Gold Medallist and First Rank Holder) <b>INDIAN INSTITUTE OF MANAGEMENT, CALCUTTA, INDIA.</b>
1984	<i>B.Tech (Mechanical Engineering)</i> <b>INDIAN INSTITUTE OF TECHNOLOGY, MADRAS, INDIA</b>

**PROFESSIONAL MEMBERSHIP**

1990 – Present: INFORMS (Operations Research Society of America until 1995)

1995 – Present: Production & Operations Management Society

1998 – Present: International Society for Inventory Research

**WORK EXPERIENCE**

***NANYANG BUSINESS SCHOOL, NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE.***

Academic Appointments

- *Professor* (with Tenure), From Feb 2008.
- *Associate Professor* (with Tenure), Aug 1999 – Jan 2008.
- *Associate Professor*, Jan 1999 – Jul 1999.
- *Lecturer*, Oct 1992 – Dec 1998.

Key Service Appointments

- Director, Centre for Business Sustainability, 2016 – 2020.
- Cluster Director, Energy Research Institute @ NTU, 2016 – 2022.
- Associate Dean (Research), 2014 – 2019.
- Head, Academic Division of IT & Operations Management (ITOM), 2008 – 2014.
- Program Director, Management Development Program @ NBS, 2011 – 2015.
- Director, PhD Program in Business, 2011 – 2005.
- Associate Director (Academic), Nanyang MBA Program, 2008-2012.
- Programme Director, MBA (Technology & Operations), 2001 – 2008.

**SOUTHERN METHODIST UNIVERSITY, DALLAS, TEXAS, USA**

- *Visiting Assistant Professor, Edwin L. Cox School of Business, Sep 1997 – Aug 1998.*

**CASE WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO, USA**

- *Software Specialist, IT Support Group (Part-time), Jan 1991 – Sep 1992.*

**BP OIL COMPANY, CLEVELAND, OHIO, USA**

- *Research Associate, Information Systems (Part-time), May 1989 – Dec 1990.*

**TUBE INVESTMENTS OF INDIA LTD., MADRAS, INDIA.**

- *Internal Auditor, Dec 1986 – Sep 1988.*

**SUNDARAM CLAYTON LTD., MADRAS, INDIA.**

- *Management Trainee (Purchasing), May 1986 – Dec 1986.*

**ACADEMIC HONORS AND AWARDS**

- Long Service Medal, Singapore National Day Honours, 2018.
- BP America Research Fellowship, Case Western Reserve University, 1989-1990.
- B.P. Poddar Merit Scholar, 1985, IIM Calcutta.
- Won several prizes at IIM Calcutta including the Chairman's Prize, John Wyne Prize, Calcutta Management Association Prize, Dr. BC Roy Gold Medal, Dr. K. Nath Public Trust Gold Medal and BP Poddar Merit Scholarship.
- Gold Medallist & First Rank Holder at IIM Calcutta. Included in the Institutes Honour Roll.
- Rank of 222 out of over 250,000 applicants in 1979 for All-India, Joint Entrance Exam for IIT admissions.

**RESEARCH**

**KEY RESEARCH AREAS**

Inventory Management, Joint Replenishment Inventory Systems, Corporate Sustainability, Policies for Carbon Control, Transportation and Urban Mobility, Sustainable Operations, Supply Chain Management, Remanufacturing & Reverse Logistics, Manufacturing Systems, Forecasting.

**RESEARCH AWARDS**

- Award for Outstanding Senior Editor of *Decision Sciences* Journal, 2014.
- Nanyang Award for Research Excellence, 2011. (University-wide research excellence award given to only one or two researchers across the whole university each year).
- Who's who in the world, 1997, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019; Who's who in Science and Engineering, 2001, 2003; Who's who in Finance and Industry, 2001, 2002; Who's who is Asia, 2006,2011.
- Selected for the 2017 and 2018 Albert Nelson Marquis Lifetime Achievement Award.

## **RESEARCH FUNDING**

### **External Grants**

**[Total: \$2.47 Million, Last 3 years: \$1.76 Million]**

- End-to-End Supply Chain Design for Additive Manufacturing, \$520,000, NRF Grant through HP-NTU Corporate Lab, 2020.
- Carbon Reduction Strategies for Top Chemical Companies, \$200,000, NRF CREATE Program – C4T Emerging Opportunities Fund Grant, 2020.
- Carbon Reduction in Chemical Technologies Phase 2, \$35 Million (across 17 PIs), NRF Grant under CREATE program for 5 years. My share of grant under the Interdisciplinary Research Program “Better Business Models” is \$305,168 for first two years, 2018
- Locating Stewardship, Governance and Sustainability, \$57,780, research project from Stewardship Asia Centre, Temasek, 2018.
- Achieving “Car-Lite Singapore”: Understanding Motorist Behaviour and Developing Interventions, \$679,782.00, [Co-PI], National Research Foundation (NRF) Grant, 2017.
- Optimization of Service Networks for Reverse Logistics, \$632,406, [Co-PI], AStar, Strategic Research Theme Grant, 2006.
- Invited as collaborator for a research project on forecasting by leading researchers in UK. Project funded by Engineering & Physical Sciences Research Council (EPSRC, UK)
- Closed Loop Manufacturing and Service Networks. \$37,000, [Co-PI], Astar Project # 0421120027, Strategic Research Theme Pilot Grant, 2004.
- Integrated Manufacturing and Service Systems. \$38,000, [Co-PI], Astar Project # 0421120026, Strategic Research Theme Pilot Grant. , 2004.

### **Internal Grants**

**[Total: \$750,838, Last 3 years: \$281,115]**

- Towards a Data-Driven, Explainable Framework for AI Start-ups’ Due Diligence, \$200,000, [Co-PI], NTU ACE (Accelerating Creativity and Excellence) Grant, 2020.
- Carbon Control Policies for Climate Change Mitigation, \$81,114.77, MOE AcRF Tier 1 Grant, 2016.
- Optimization Models for Capacity and Service Enhancements in Rail Systems, \$84,834, MOE AcRF Tier 1 Grant, 2014.
- Inventory control policies for after-market service networks, \$10,000, Nanyang Research Excellence Award, 2012.
- Impact of Carbon Control on Operations & Supply Chain, \$250,000, NTU Initiative Fund Grant, 2011.
- Decision Models for Optimal Positioning and Use of Information and Communication Technologies (ICT) in the Supply Chain, \$60,000, MOE AcRF Tier 1 Grant, 2010.
- Mathematical Programming Approach to Multi-item Lot Sizing & Scheduling Problems, \$4990, NTU-MOE Applied Research Fund Grant, 2005.

- Coordination Issues in Supply Chain Management. \$4,900, NTU-MOE Applied Research Fund Grant, 2001.
- Global Supply Chains: Benchmarking Singapore's Competitiveness. (with Dr. Shi Yuwei & Dr. R. Bhatnagar.): \$50,000, NTU-MOE Applied Research Fund Grant, 1995.
- Studies in Multi-Stage and Multi-Item Production and Inventory Systems. \$5,000, NTU-MOE Applied Research Fund Grant, 1993.
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**CITATION SUMMARY**

Database	Citation Count	H-index	i10-index
Google Scholar	2981	23	36

**PUBLICATIONS**

**JOURNAL ARTICLES**

1. S. Srivathsan and S. Viswanathan, (2017), "A queueing based optimization model for planning inventory of repaired components in a service center". *Computers and Industrial Engineering*, 106, April 2017, 373-385. <http://dx.doi.org/10.1016/j.cie.2017.01.020>.
2. K. Z. Zhou, C. Su, A. Yeung, S. Viswanathan (2016), Supply Chain Management in Emerging Markets," Special Issue Editorial, *Journal of Operations Management*, 46, September 2016, 1-4.
3. N. Bryan, M. M. Srinivasan, and S. Viswanathan (2016), "Managing Supply Systems with Partial Information on Shipment Locations," *International Journal of Production Research*, 54, 2771-2779.
4. S. Ghosh, R. Piplani, and S. Viswanathan (2015) "A new two-bin policy for inventory systems with differentiated demand classes," *Production and Operations Management*, 24, 840-850.
5. Y. Feng, and S. Viswanathan (2014), "Heuristics with guaranteed performance for a manufacturing system with product recovery," *European Journal of Operational Research*, 232, 322-329.
6. S. Ghosh, R. Piplani, and S. Viswanathan (2014) "Optimal inventory rationing policy under service differentiation for multiple customer classes with deterministic demand," *International Journal of Services and Operations Management*, 18, 38-56.
7. S. Axsater, and S. Viswanathan (2012), "On the value of customer information for an independent supplier in a continuous review inventory system," *European Journal of Operational Research*, 221, 340-347.
8. Yan Feng, and S. Viswanathan, (2011), "A new lotsizing heuristic for manufacturing systems with product recovery," *International Journal of Production Economics*, 133, 432-438.

9. C. Zhou and S. Viswanathan, (2011), "Comparison of a new bootstrapping method with parametric approaches for safety stock determination in service parts inventory system," *International Journal of Production Economics*, 133, 481-485.
10. M. M. Srinivasan and S. Viswanathan, (2010), "Optimal WIP Inventory Levels for High-Variety Low-Volume Manufacturing Systems," *IIE Transactions*, 42, 379-391.
11. R. Bhatnagar and S. Viswanathan, (2010), "Analysis of Warehouse Location Decisions in Urban Distribution Systems," *Technology, Operations and Management*, 1, 1-10.
12. S. Viswanathan, (2009), "Coordination in Vendor-Buyer Inventory Systems: On Price Discounts, Stackelberg Game and Joint Optimization," *International Journal of Operational Research*, 6, 110-124.
13. H. Widiarta, S. Viswanathan and R. Piplani, (2009), "Forecasting Aggregate Demand: An Analytical Evaluation of Top-Down versus Bottom-Up Forecasting in a Production Planning Framework," *International Journal of Production Economics*, 118, 87-94.
14. S. Viswanathan, H. Widiarta, and R. Piplani, (2008), "Forecasting aggregate time series with lumpy subaggregate components: Top-down versus bottom-up Forecasting," *IMA Journal of Management Mathematics*, 19, 275-287.
15. H. Widiarta, S. Viswanathan and R. Piplani, (2008), "Evaluation of Hierarchical Forecasting for Substitutable Products," *International Journal of Services and Operations Management*, 4, 277-295.
16. H. Widiarta, S. Viswanathan, and R. Piplani, (2008), "Forecasting Item-Level Demands: An Analytical Evaluation of Top-Down versus Bottom-Up Forecasting in a Production Planning Framework," *IMA Journal of Management Mathematics*, 19, 207-218.
17. Viswanathan, (2007), "An Algorithm for determining the best lower bound for the Stochastic Joint Replenishment Problem," *Operations Research*, 55, 992-996.
18. H. Widiarta, S. Viswanathan, and R. Piplani, (2007), "On the Effectiveness of Top-Down Approach for Forecasting Autoregressive Demands," *Naval Research Logistics*, 54, 176-188.
19. Yan Feng and S. Viswanathan, (2007), "Impact of Demand Uncertainty on Coordinating Supply Chain Inventories Through Common Replenishment Epochs," *Journal of Operational Research Society*, 58, 964-971.
20. S. Viswanathan, H. Widiarta, R. Piplani, (2007), "Value of Information and Synchronization in a Multi-Tier Supply Chain," *International Journal of Production Research*, 45, 5057-5074.
21. S.K. Goyal and S. Viswanathan, (2006), "On Optimal production policy with shelf life including shortages," *Journal of the Operational Research Society*, 57, 747-754.
22. S. Viswanathan and R. Bhatnagar, (2005), "The application of ABC Analysis in Logistics and Production: An explanation for the apparent Contradiction," *International Journal of Services and Operations Management*, 1, 257-267.
23. R. Piplani and S. Viswanathan, (2004), "Supply Chain Inventory Coordination through Multiple Common Replenishment Epochs and Selective Discount" *International Journal of Logistics: Research and Applications*, 7, 109-118.
24. S. Viswanathan and S.K. Goyal, (2003), "Corrigendum: Optimal Cycle Time and Production Rate in a Family Production Context with Shelf Life Considerations," *International Journal of Production Research*, 41, 3389.
25. S. Viswanathan and Q. Wang, (2003), "Discount Pricing Decisions in Distribution Channels with Price-Sensitive Demand," *European Journal of Operational Research*, 149, 571-587.

26. R. Piplani and S. Viswanathan, (2003), "A Model For Evaluating Supplier Owned Inventory Strategy," *International Journal of Production Economics*, 81-82, 565-571.
27. W.K. Ng, R. Piplani, S. Viswanathan, (2003), "Development of a Simulation Workbench for Analysing Information Flow in Multi-echelon Supply Chains," *Integrated Manufacturing Systems*, 14, 449-457.
28. S. Viswanathan and S.K. Goyal, (2002), "On Manufacturing Batch Size and Ordering Policy for Products with Shelf Lives", *International Journal of Production Research*, 40, 1965-1970.
29. U. M. Apte, and S. Viswanathan, (2002), "Strategic and Technological Innovations in Supply Chain Management," *International Journal of Manufacturing Technology and Management*, 4, 264-282.
30. S. Viswanathan, (2002), "On Optimal Algorithms For The Joint Replenishment Problem," *Journal of the Operational Research Society*, 53, 1286-1290.
31. S. Viswanathan and R. Piplani, (2001), "Coordinating Supply Chain Inventories Through Common Replenishment Epochs," *European Journal of Operational Research*, 129, 277-286. [This was among the top 4 requested papers on the EJOR website in 2001]
32. U. M. Apte, and S. Viswanathan, (2000), "Effective Cross Docking For Improving Distribution Efficiencies," *International Journal of Logistics: Research and Applications*, 3, 291-302.
33. R. Bhatnagar and S. Viswanathan, (2000), "Reengineering Global Supply Chains: Alliances between Manufacturing Firms and Global Logistics Services Providers," *International Journal of Physical Distribution and Logistics Management*, 30, 13-34.
34. S. Viswanathan and S.K. Goyal, (2000), "Incorporating planned backorders in a family production context with shelf life considerations," *International Journal of Production Research*, 38, 829-836.
35. S. Viswanathan, (1998), "Optimal Strategy for the Integrated Vendor-Buyer Inventory Model," *European Journal of Operational Research*, 105, 38-42.
36. S. Viswanathan, (1997), "Periodic Review ( $s, S$ ) Policies for Joint Replenishment Inventory Systems", *Management Science*, 43, 1447-1454.
37. S. Viswanathan and K. Mathur, (1997), "Integrating Routing and Inventory Decisions in One Warehouse Multi-Retailer Multi-Product Distribution Systems", *Management Science*, 43, 294-312.
38. S. Viswanathan, and S.K. Goyal, (1997), "Optimal Cycle Time and Production Rate in a Family Production Context with Shelf Life Considerations", *International Journal of Production Research*, 35, 1703-1711.
39. S. Viswanathan, (1996), "A new optimal algorithm for the Joint Replenishment Problem", *Journal of the Operational Research Society*, 47, 936-944.
40. S. Viswanathan, (1996), "A New Approach for Solving the P-Median Problem in Group Technology", *International Journal of Production Research*, 34, 2691-2700.
41. S. Viswanathan, (1995), "Configuring Cellular Manufacturing Systems: A Quadratic Integer Programming Formulation and a Simple Interchange Heuristic", *International Journal of Production Research*, 33, 361-376.
42. S. Viswanathan, (1995), "A note on Effect of production cost on shelf life", *International Journal of Production Research*, 33, 3485-3486.

43. S. Viswanathan and Rohit Bhatnagar, (1995), "An Alternative Approach for Modelling Multi-Item Inventory Problems", *Malaysian Journal of Management Science*, 4, December 1995.
44. S. Viswanathan, (1993), "Optimal Policies for the Capacitated Two-Stage Multi-Item Inventory Model with Joint Setup Costs", *Operations Research Letters*, 14, 43-48.
45. S. Viswanathan, (1993), "Algorithms for configuring GT cells", *Malaysian Journal of Management Science*, 2, 72-83.

#### **BOOK CHAPTERS**

46. M. M. Srinivasan and S. Viswanathan, (2014), "Evaluating South East Asian Supply Chains on an EPIC framework", Chapter 5 in *Global Supply Chains: Evaluating Regions on an EPIC framework*, McGraw-Hill, New York, 2014.
47. U. Apte, and S. Viswanathan, (2007), "A Proactive Demand Management Model for Controlling e-Retailer Inventory," *To appear in "Managing in the Information Economy: Current Research Issues*, Edited by U. Karmarkar and U. Apte, Springer, ISBN: 978-0-387-34214-6.
48. S. Viswanathan, (1996), "Operational Auditing" in *Issues and Developments in Auditing*, Singapore Business Development Series, Addison Wesley.
49. S. Viswanathan, Cheryl Tay, Venson Shaw, (1995), "Productivity through Strategy: The Case of NTUC Fairprice", in NPB Casebook on Productivity Successes of Singapore Companies, published by National Productivity Council.

#### **KEYNOTE & INVITED PRESENTATIONS, & SPONSORED SESSIONS AT CONFERENCES**

50. S. Viswanathan (2018), "Challenges in Business Sustainability," *Invited Keynote Address, 3<sup>rd</sup> International Research Conference on Economics, Business and Social Sciences: Sustainable Economy, Business and Society in Emerging Economies in the Age of Industrial Revolution 4.0*, University of Malaya, Kuala Lumpur, Malaysia, November 09, 2018.
51. S. Viswanathan, (2018), "Sustainable Operations and Supply Chains," *Invited Public Lecture*, UCSI University, Kuala Lumpur, Malaysia, July 19, 2018.
52. Raychaudhuri, F. Liu, and S. Viswanathan (2016) "Fostering responsibility in supply chains: Are existing practices effective," *POMS Annual Conference*, Orlando, Florida, USA, May 2016.
53. Raychaudhuri, F. Liu, and S. Viswanathan (2015) "Evaluating alternative strategies for fostering responsibility among suppliers," invited session, *INFORMS Conference*, Philadelphia, USA. November, 2015.
54. S. Viswanathan (2014), "Emerging trends in supply chain management," *Invited Keynote Address, International Conference on Advances in Design & Manufacturing*, National Institute of Technology, Trichy, India, December, 2014
55. M. Bihade, R. Bhatnagar, and S. Viswanathan (2014), "An Integrated Model for Train Timetabling and Platforming in High Density Double Track Corridor," *INFORMS Annual Conference*, San Francisco, CA, USA, November, 2014.
56. Geoff Chua, Yan Feng, S. Viswanathan, (2012), "On (r, Q) policies in continuous review inventory systems with remanufacturing and setup costs," *POMS Annual Conference*, Chicago, USA, April, 2012.



57. S. Viswanathan, (2011), "Sustainability Curriculum in Graduate Business Programs," *Symposium on Accounting, Reporting and Assurance for a Sustainable Future : Risks and Opportunities*, Organized by NTU and UNSW, Singapore, November 01, 2011.
58. S. Viswanathan (2010), "Research Issues in Maritime Logistics," invited presentation, *International Conference on Vision and Roadmap for R&D Priorities in Maritime Environment*, Technology, Business, Policy and Security, Singapore, April, 2010.
59. S. Viswanathan and Chenxi Zhou, (2009), "Inventory Planning for Spare Parts with Long Inter-Demand Intervals," Presented at *Production and Operations Management Society (POMS) Annual Conference*, Orlando, Florida, April, 2009.
60. S. Viswanathan and M. M. Srinivasan, (2008), "Optimal WIP Inventory Levels for High-Variety Low-Volume Manufacturing Systems," Presented at *Operations Research and Management Science Symposium*, NUS Business School, SINGAPORE.
61. H. Widiarta, S. Viswanathan and R. Piplani, (2006), "Forecasting Aggregate Demand: An Analytical Evaluation of Top-Down versus Bottom-Up Forecasting in a Production Planning Framework," presented at *14<sup>th</sup> International Symposium on Inventories*, Budapest, Hungary.
62. U. Apte, and S. Viswanathan, (2002), "Managing Inventory for e-Commerce Retailers Through Proactive Demand Management," presented at POMS Annual Conference, 2002, San Francisco.
63. S. Viswanathan, (1999), "Joint Replenishment Inventory Models: A Review of Applications and Algorithms", Presented at *The Fourth Summer School on Inventory Modelling*, Exeter, U.K. organised by International Society for Inventory Research

#### **CONFERENCE PRESENTATIONS**

64. Y. Wang, K. Savani, and S. Viswanathan (2020), "Encouraging People to Drive Less: An Experimental Investigation," Poster Presentation, *19th General Meeting of the European Association of Social Psychology*, Krakow, Poland. July 2020.
65. Y. Wang, K. Savani, and S. Viswanathan (2020), "The Role of Normative Information in Encouraging People to Drive Less: An Experiment," Poster # 31428, *32<sup>nd</sup> Annual APS Convention, Association of Psychological Science*, Chicago. May 2020.
66. K. R. Preethi, and S. Viswanathan (2020) "Carbon Pricing Strategies for Multi-Unit Firms," *POMS Annual Conference*, Minneapolis, Minnesota, USA, April 2020.
67. K. Verma, and S. Viswanathan (2019), "Moral Character and Stewardship: Explaining the Role of Enlightened Self-Interest," Academy of Management (AOM) Specialized Conference: Responsible Leadership in Rising Economies, Bled, Slovenia, October 2019.
68. Y. Wang, K. Savani, S. Viswanathan (2019), "Encouraging People to Drive Less: Experimental Evidence Based on Varying Fixed Costs and Variable Costs," *MSOM Conference*, Singapore. July 2019.
69. Raychaudhuri, F. Liu, and S. Viswanathan (2019) "Buyer-Supplier Relationships in the Context of Social Responsibility," *MSOM Annual Conference*, Singapore, July 2019.
70. S. Viswanathan, M. Bihade, and R. Bhatnagar, (2017), "Scheduling trains to minimize peak power and maximize regenerative braking power utilization," *INFORMS Conference*, Houston, Texas, USA. October, 2017.
71. S. Viswanathan (2016) "Multi-Item Inventory Systems with Capacity Constraint Constraint on the Major Setup," *POMS Annual Conference*, Orlando, Florida, USA, May 2016.

72. Raychaudhuri, F. Liu, and S. Viswanathan (2015) "Profitability of corporate strategies for promoting responsibility in supply chains," *MSOM Conference*, Toronto, Canada. June, 2015.
73. S. Ghosh, R. Piplani, and S. Viswanathan (2015) "Critical level rationing policy for continuous review inventory systems with multiple demand classes," *POMS Annual Conference*, Washington DC, USA, May 2015
74. Raychaudhuri, F. Liu, and S. Viswanathan (2015) "Guidelines for corporate investments for promoting social responsibility in global supply networks," *POM-HK Conference*, Guangzhou, China. January, 2015.
75. A. Sainathan, and S. Viswanathan, (2014), "Modeling Carbon Control Policies: Tax versus Cap & Trade," *INFORMS Annual Conference*, San Francisco, CA, USA, November, 2014.
76. M. Bihade, R. Bhatnagar, and S. Viswanathan (2014), "An Integrated Model for Train Timetabling and Platforming," *POMS International Conference*, Singapore, July, 2014.
77. A. Sainathan, S. Viswanathan, J. Wang (2013), "Modeling Carbon Control Policies: Tax versus Cap & Trade," *INFORMS Annual Conference*, Minneapolis, MN, USA, October, 2013.
78. S. Viswanathan, S. Ghosh, R. Piplani, (2012), "A New Class of Two Bin Policy for Inventory Rationing in a Continuous Review System," *INFORMS Annual Conference*, Phoenix, AZ, USA, October, 2012.
79. Geoff Chua, Yan Feng, S. Viswanathan, (2012), "Near optimal algorithms for a class of policies for the stochastic inventory problem with remanufacturing," *MSOM Annual Conference*, New York, USA, July, 2012.
80. Geoff Chua, Yan Feng, S. Viswanathan, (2012), "On the effectiveness of (r, Q) policies in continuous review inventory systems with remanufacturing and setup costs," *POMS International Conference*, Hong Kong, January 2012.
81. S. Viswanathan, (2011), "The Joint Replenishment Problem with Capacity Restrictions," Presented at *Production and Operations Management Society (POMS) Annual Conference*, Reno, Nevada, April-May, 2011.
82. R Piplani, S Viswanathan and S Ghosh (2011) "A new two-bin policy for inventory control of multi-priority demands in a continuous review environment." *International Conference on Operations Research*, September, 2011, Zurich, Switzerland.
83. S. Ghosh, R Piplani and S Viswanathan (2009) " Inventory Policies for service differentiation with deterministic demand," *9<sup>th</sup> International Workshop on Closed-Loop Supply Chain Management*, September 17-19, 2009, Braunschweig, Germany
84. S. Ghosh, R Piplani and S Viswanathan (2009) "Inventory models for differentiated service," *IS DSI Conference*, January, 2009, IIT Mumbai, India.
85. Chenxi Zhou and S. Viswanathan, (2008), "A New Bootstrapping Based Method for Forecasting and Safety Stock Determination for Managing Service Parts Inventory," Presented at *15<sup>th</sup> International Symposium on Inventories*, Budapest, Hungary.
86. Yan Feng and S. Viswanathan, (2008), "A New Lotsizing Heuristic for Manufacturing Systems with Product Recovery," Presented at *15<sup>th</sup> International Symposium on Inventories*, Budapest, Hungary.
87. Yan Feng and S. Viswanathan, (2006), "The impact of demand uncertainty on coordinating supply chain inventories," *APORS Conference*, January, 2006.

88. S. Viswanathan and Ying Hang Chen, (2006), "The Joint replenishment problem with capacity constraint," APORS Conference, January, 2006.
89. S. Viswanathan, and Yan Feng, (2005), "Forecasting of service arrivals in a repair center," IEEE Conference on Automation Science and Engineering, August, 2005, Edmonton, Canada.
90. S. Viswanathan, Handik Widiarta, R. Piplani, (2004), "Forecasting aggregate time series with lumpy subaggregate components," POMS Annual Conference, 2004, Cancun, Mexico
91. Handik Widiarta, S. Viswanathan, R. Piplani, (2003), "On the effectiveness of top-down versus bottom-up forecasting: The case of lumpy subaggregate time series," *8<sup>th</sup> Annual International Conference on Industrial Engineering Theory, Applications and Practice*, Las Vegas, Nevada, USA.
92. R. Piplani, and S. Viswanathan, (2003), "Supply chain inventory coordination through multiple, common replenishment epochs and selective discounts," *6<sup>th</sup> International Conference of the Asia-Pacific Operational Research Society (APORS)*, New Delhi, India. Won the best paper award.
93. D.G. Allampalli and S. Viswanathan, (2003), "Komala's Restaurant of Singapore," *6<sup>th</sup> Annual Convention, Strategic Management Forum, India*, Jamshedpur, April.
94. Woon Kian Ng, R. Piplani and S. Viswanathan, (2002), "Information Exchange Mechanisms for a 4-Echelon Supply Chain," *30<sup>th</sup> International Conference on Computers & Industrial Engineering*, Tinos Island, Greece.
95. S. Viswanathan, (2002), "Inventory Coordination in Supply Chains: On Price Discounts and Joint Optimization under Stackelberg Game Framework," presented at *12<sup>th</sup> International Symposium on Inventories*, Budapest, Hungary.
96. D. Ng, R. Piplani, S. Viswanathan, (2002), "A Simulation Based Study of Information Exchange Mechanisms for Multi-Echelon Supply Chain," presented at POMS Annual Conference, 2002, San Francisco.
97. S. Viswanathan, and R. Piplani, (2001), "Supplier Buyer Inventory Systems with Supplier Owned Inventory," presented at *INFORMS Annual Conference*, Miami Beach.
98. R. Piplani and S. Viswanathan, (2000), "A Model For Evaluating Supplier Owned Inventory Strategy," presented at *11<sup>th</sup> International Symposium on Inventories*, Budapest, Hungary.
99. S. Viswanathan, (2000), "Coordination in Supply Chains: On Price Discounts, Stackelberg Game and Joint Optimization," presented at *INFORMS Multi-Echelon Inventory Conference*, Ann Arbor, Michigan, USA.
100. S. Viswanathan and Q. Wang, (1999), "Discount Pricing Decisions in Distribution Channels," presented at *INFORMS Conference*, Philadelphia, USA.
101. S. Viswanathan, (1997), "Analysis of Warehouse Re-location Decision in an Urban FMCG Distribution System", *APORS'97*, December 1997, Melbourne, Australia.
102. S. Viswanathan and S.K. Goyal, (1997), "Algorithms for the Joint Replenishment Problem: A Survey", *APORS'97*, December 1997, Melbourne, Australia.
103. S. Viswanathan, (1997), "An algorithm for determining the Optimal  $Q(s, S)$  Policy for Joint Replenishment Inventory Systems", *Presented at INFORMS National Conference*, May 1997, San Diego.

- 104.S. Viswanathan, (1995), "One Warehouse Multi-Retailer DR Systems with Vehicle Routing Costs: A Computational Comparison of Two Classes of Policies", *Presented at the INFORMS International Conference*, June 1995, Singapore.
- 105.S. Viswanathan and Rohit Bhatnagar, (1995), "An Alternative Approach for Modelling Multi-Item Inventory Problems", *Proceedings of the National Conference on Management Sciences*, Kuala Lumpur, October 1995.
- 106.S. Viswanathan, (1994), "A New Measure of Similarity Coefficient for Solving the P-Median Problem in Group Technology", in *Development in Diversity and Harmony: Proceedings of APORS'94*, editors M Fushimi and K. Tone, Chapter 6, 423-431, World Scientific Publishing Co.
- 107.S. Viswanathan, (1994), "The Joint Replenishment Problem with Ordering Restrictions", in *Development in Diversity and Harmony: Proceedings of APORS'94*, editors M Fushimi and K. Tone, Chapter 9, 593-601, World Scientific Publishing Co.
- 108.S. Viswanathan, (1994), "A Hierarchical Approach to Solving Facility Layout Problems", in *Development in Diversity and Harmony: Proceedings of APORS'94*, editors M Fushimi and K. Tone, Chapter 7, 531-538, World Scientific Publishing Co.
- 109.S. Viswanathan, (1993), "Solving the Cell-Configuration Problem in Group Technology as a Linear-Integer Program", *Proceedings of the Second International Conference on Computer Integrated Manufacturing*, Vol. 2, pg. 396-406, September 1993, Singapore.
- 110.S. Viswanathan, and K. Mathur, (1992), "An  $O(n^2)$  Heuristic for the Joint Replenishment Problem With General Setup Costs", *Presented at the 33rd TIMS/ORSA Joint National Conference*, April 1992, Orlando, Florida, USA.

#### **CASE STUDIES**

- 111.T. Quader and S. Viswanathan, (2016), "Sustainability Case Study on Maritime and Port Authority of Singapore (MPA)," in *Corporate Sustainability Case Studies 2016: Featuring Singapore Sustainability Awards 2015 Winners*, Published Jointly United Nations Global Compact Network Singapore and Nanyang Business School, NTU, 2016, 41-48.
- 112.T. Quader and S. Viswanathan, (2016), "Sustainability Case Study on Canon Singapore Pte Ltd.," in *Corporate Sustainability Case Studies 2016: Featuring Singapore Sustainability Awards 2015 Winners*, Published Jointly United Nations Global Compact Network Singapore and Nanyang Business School, NTU, 2016, 27-33.
- 113.T. Quader and S. Viswanathan, (2016), "Sustainability Case Study on Buckman Laboratories (Asia) Pte Ltd.," in *Corporate Sustainability Case Studies 2016: Featuring Singapore Sustainability Awards 2015 Winners*, Published Jointly United Nations Global Compact Network Singapore and Nanyang Business School, NTU, 2016, 18-26.
- 114.T. Quader and S. Viswanathan, (2016), "Sustainability Case Study on Elmich Pte Ltd.," in *Corporate Sustainability Case Studies 2016: Featuring Singapore Sustainability Awards 2015 Winners*, Published Jointly United Nations Global Compact Network Singapore and Nanyang Business School, NTU, 2016, 34-40.
- 115.S. Viswanathan and D. G. Allampalli, (2014), "SMRT Trains," Case study on Quality Management, Asian Business Case Centre, Nanyang Business School, Nanyang Technological University. [**Among the top 5 downloaded cases from Asian Business Case Centre**].

- 116.S. Viswanathan and D. G. Allampalli, (2014), "SMRT Trains," Teaching Note for Case on Quality Management, Asian Business Case Centre, Nanyang Business School, Nanyang Technological University.
- 117.S. Viswanathan, (2012), "Four Star Industries, Singapore: Matching Supply with Demand," Teaching Note for Case on Supply Chain Management, Asian Business Case Centre, Nanyang Business School, Nanyang Technological University.
- 118.S. Viswanathan and D. G. Allampalli, (2009), "Four Star Industries, Singapore: Matching Supply with Demand," Case study on Supply Chain Management, Asian Business Case Centre, Nanyang Business School, Nanyang Technological University. **[Among the top 5 downloaded cases from Asian Business Case Centre]**.
- 119.D.G. Allampalli and S. Viswanathan, (2002), "Komala's Restaurant of Singapore," Case Study on Service Operations Management/Process Analysis, *AsiaCase.Com*, Nanyang Business School, Nanyang Technological University.

#### **NON-REFEREED ARTICLES**

- 120.S. Viswanathan and K. Verma (2020) "Understanding Corporate Stewardship, Governance & Sustainability: A Landscape Study," Final report submitted to Stewardship Asia Centre by Centre for Business Sustainability, Nanyang Business School.
- 121.A.Raychaudhuri and S. Viswanathan (2014), "How remanufacturing can be made a norm," *Business Times*, September 23, 2014.
- 122.S. Viswanathan, and R. Bhatnagar (2009), "Keeping an Eye on the Market Changes: Operations and Innovation in Small Enterprises," *Business Times*, Enterprise 50 Supplement, Page 31, November 3, 2009.
- 123.R. Bhatnagar and S. Viswanathan (2009), "Operations and Innovations in Small Enterprises," Springnews, December, 2009, SPRING, Singapore.
- 124.S. Viswanathan, (2002), "Effective e-Procurement: Exploiting the Full Potential of a Coordinated Supply Chain," *Making IT Happen*, Vol. 4, No.2, 1-3.
- 125.S. Viswanathan, (1994), "Keeping Updated on the Latest Developments in Operations Research through the INTERNET", *Newsletter of the OR Society of Singapore*, May, 1994, 5-6, Singapore (1994)

#### **WORKING PAPERS**

- 126.G. A. Chua, Y. Feng, J. Senga, S. Viswanathan, (2020), "Efficient policies and algorithms for hybrid manufacturing and remanufacturing systems with setup cost,".
- 127.S. Ghosh, R. Piplani, and S. Viswanathan (2017) "Inventory rationing for continuous review system with multiple demand classes," under revision.
- 128.A. Sainathan, and S. Viswanathan, (2018), "Evaluation of alternative policies for regulating GHG Emissions," under revision.
- 129.M. Birhade, S. Viswanathan and R. Bhatnagar, (2017), "Scheduling trains in suburban systems to minimize peak power consumption and maximize usage of regenerative breaking power,".
- 130.M. Birhade, R. Bhatnagar and S. Viswanathan, (2016), "The Integrated Train Timetabling and Platforming Problem,".
- 131.S. Viswanathan, (2016), "The Joint Replenishment Problem with Capacity Constraint on the major setup," under revision.

132.S. Viswanathan and U. Apte, (2005), "An Inventory model with multiple levels of proactive demand for e-retailing,".

### **DISSERTATIONS/PROJECTS SUPERVISED**

- K. R. Preethi, PhD, 2022.
- Madhav Jagannathan, PhD, 2021.
- Avijit Raychaudhuri, PhD, 2017, "Responsible Supply Chain Operations: Analytical Modeling Of Emerging Issues," Assistant Professor, Indian Institute of Management.
- Mahendra Birhade, PhD, 2015, "Scheduling & Resource Optimization for Railways," Chief Operating Officer, Distribution Logistics Infrastructure Pvt. Ltd.
- Sugoutam Ghosh, PhD, 2012, "Algorithms for inventory systems with multi-class demands under continuous review policies with rationing," Assistant Professor, Singapore University of Social Sciences.
- Yan Feng, PhD, 2009, "Inventory Models for Reverse Logistics," Assistant Professor, Wuhan Textile University, China.
- Haodong Zhang, MBus, 2007, "Effectiveness of Business Volume Discount as Coordination mechanism in the Supply Chain,"
- Handik Widiarta, PhD, 2004, "Analytical Evaluation of Top-Down and Bottom-up Forecasting Strategies in a Production Planning Environment," (Co-Supervisor), Chairman, PT BPR Indra Candra, Director, Indra Motor.
- David Ng, Masters by Research in Mechanical Engineering, 2001, "Information Exchange Mechanisms for 4 Echelon Supply Chain,".
- Murtaza Attarwala, MBA, 2001, "Feasibility of Implementing CFPR for Asian Division of a Chemical Company,".
- Jagdish Singh, T. H. Ong, and W. S. Ling, MBA, 2001, "The design and implementation of a Lean Manufacturing System at an Aerospace Repair and Overhaul Facility,".
- Huang Yunbo, MBus, 1999, "Impact of Plant Practices on Operational Performance,"
- Hia Swee Chay, MBA, 1994, "An Optimization Model for Manufacturing Outsourcing with Special Application to Semiconductor Assembly,".
- MBA/PMBA/EMBA/Executive Programs Strategy Projects (SPAN) Mentor for 14 project groups from 2016-2020 (Bread Talk, Ministry of Health Holdings, Tata Communications, Alter Domus, Nikkei Group Asia, Alstom, Teo Garments, Johnson Controls).

### **MEDIA COVERAGE**

- Quoted on issues related to Corporate Sustainability and Circular Economy by ChannelNews Asia, Lianhe Zaobao, and Chinese TV Channel.
- Several articles on Sustainability, Operations and Supply Chain in local newspapers and magazines. (See Non-Refereed Artciles).

## **TEACHING**

### **TEACHING INTERESTS**

- Corporate Sustainability (MBA and MSc)
- Inventory Theory (PhD)
- Operations Management (Exec, UG, MBA)
- Supply Chain & Logistics Management (Exec, MBA)
- Optimization (PhD)
- Mentor, Strategy Projects @ NTU (SPAN) for MBA, PMBA, EMBA and Executive programmes. Provide mentoring and advise for students groups in experiential learning project with companies.

### **COURSES TAUGHT**

- B6602 Corporate Sustainability: Strategies, Innovations & Methodologies (MBA)
- RE6004 Sustainable Operations: Strategies & Methodologies, (MSc course)
- OM9102 Inventory Theory (PhD Program)
- EM6622 Managing Operations (EMBA)
- B6016 Managing Business Operations (MBA Core)
- B6080 Supply Chain & Logistics Management (MBA Elective)
- OM9101 Optimization (PhD Program)
- OM9201 Contemporary Issues in Operations Management (PhD Program)
- BT204 Service Operations Management (UG Elective)
- BC211 Managing Operations in Services and Manufacturing (UG Core)
- BM333 Logistics Management (UG Elective)
- B6641 Data Modeling & Operations Management (MBA-TOM, Core)
- B6009 Decision Science (MBA Core)
- AC108 Management Science (UG Core)
- BM206 Quantitative Methods (UG Core)
- MIS6386 Supply Chain & Logistics Mgmt. (MBA Elective, at SMU, Dallas, Tx)
- MIS6302 Managing Operations in Mfg. & Svcs (MBA core, at SMU, Dallas, Tx)
- MIS2306 Operations Management (UG Core, at SMU Dallas, Tx)

### **EXECUTIVE TEACHING**

Taught executive programs on topics related to Corporate Sustainability, Supply Chain Management, Business Process Analysis, Operations Management and Logistics to Global Compact Network Singapore (GCNS), MDP@Nanyang, INSEAD Leadership Program for Senior Indian Executives, Berkeley-Nanyang Advanced Management Program, Nanyang Executive MBA Program, Nanyang Executive Open Program, SPRING High Potential Leaders Program, WDA High Potential Leaders Program, Management Development Program@NBS, Logistics Practitioners Development Program (For Chartered Institute of Transport), Essilor International, RGE, Panasonic, Singapore

Petroleum Company, TNT Logistics, IBM, Matsushita, NTU-Erasmus SCM Program, Ministry of Foreign Affairs (Government Officers from developing countries) IMARC, and other companies.

### **TEACHING AWARDS & ACHIEVEMENTS**

- Average teaching evaluation score of 4.55 on a 5 point scale for last 5 years.
- Mentor/Advisory Board Member of winning MBA student team for Sasin Bangkok Business Challenge – Sustainability Round, 2020.
- Winner of Teacher of Division Award, Nanyang Business School, 2003.
- Nominated for Teacher of the School, Nanyang Business School, 2003.
- Nominated for Teacher of Division, Nanyang Business School, 2002, 2004, 2005, and 2006.
- Developed a new MBA elective “Corporate Sustainability: Strategies, Innovations and Methodologies” in 2011. Five rounds of offerings have received very good feedback. The syllabus was continuously updated and improved over the years.
- A version of the Sustainability course is also offered for the MSc segment of Renaissance Engineering Programme (REP) for the first six cohorts of the programme.
- Was responsible for launching and stabilizing several Operations and Supply Chain Management courses at UG, MBA and Executive program levels at Nanyang Business School.

### **SERVICE**

#### **UNIVERSITY SERVICE**

- Associate Dean (Research), 07/2014 to 06/2019.
- Director, Centre for Business Sustainability, 2016 to 2020
- Head, Academic Division of Information Technology & Operations Management (ITOM), 07/2008 to 06/2014.
- Acting Interim Dean, Nanyang Business School, as and when required for short durations (one to 2 weeks), 2009-2013.
- Cluster Director, Energy Research Institute @ NTU (ERI@N), from 2016 - 2020.
- Fellow, Renaissance Engineering Programme, NTU, 2015 – 2021.
- Programme Director, Management Development Program @ NBS, 2011 – 2015. Founding Programme Director. Developed the program curriculum.
- Director, PhD Program in Business, 07/2001 to 06/2005.
- Associate Director (Academic), Nanyang MBA Program, 2008-2012. Was involved in the curriculum design and redesign of the full-time MBA into a one-year program.
- Programme Director, MBA (Technology & Operations), 03/2001 to 06/2008. Founding Programme Director of the NTU-Waseda double MBA Program. Was involved in developing the curriculum for the NTU-Waseda double MBA and the



MBA (Technology & Operations) curriculum.

- Member of EP4 Subcommittee of NTU Research Council, 2020.
- Member, NTU CRP (Competitive Research Program) Grant Panel, from 2016 - 2019.
- Member, NTU SSRTG (Social Science Research Thematic Grant) Panel, from 2016 – 2019.
- Member, Graduate College Executive Committee, 2018 – 2019.
- Member, NTU Presidential Post Doctoral Fellowship 2019 Evaluation Committee.
- Member, NTU ACE Research Awards Evaluation Committee, 2018, 2019.
- Fellow, Renaissance Engineering Programme, NTU, from 2015 - 2021.  
Was involved in developing the initial curriculum for the MSc(Technology Management) segment of the program.
- Member, Working Group for formation of Graduate College, 2018.
- Member RISE review Subcommittee, 2017.
- Member RISE implementation Subcommittees, 2017.
- Member, NTU Teaching Council, 2016 – 2017.
- Member, Dean’s Advisory Committee, 2015 - 2020.
- Member, Selection Committee for Director of Air Traffic Management Research Institute, 2016.
- Member, School Review Committee for Promotion and Tenure (SRCPT), Wee Kim Wee School of Communication & Information (WKWSCI), NTU, from 2015 - 2019.
- Member, NTU Review Committee for NUS/NTU-Japan Society for the Promotion of Science (JSPS), 2015.
- Chairman, School Review Committee for Promotion and Tenure (SRCPT), Nanyang Business School, NTU, 2011-2012.
- Member, Special School Review Committee for Promotion and Tenure (Special SRCPT), College of Engineering, NTU, 2012.
- Member, School Review Committee for Promotion and Tenure (SRCPT), School of Computer Engineering, NTU, 2009-2012.
- Co-Chair, Business Sustainability Committee, NBS, 2014-2016.
- Elected Member, University Senate, 2010-2012, 2012-2014.
- Member, Dean Search Committee, Cornell Nanyang Institute, 2009/2010.
- Chairman, School IT Steering Committee, 11/2000 – 10/2001.
- Chairman, School Equipment Committee & IT Support Group, 09/1998- 10/2000.  
Responsible for overseeing school computing facilities comprising 1000 networked computers and 20 technical and managerial staff.
- Member, NTU Review Committee for NUS/NTU- Japan Society for the Promotion of Science (JSPS) Research Grants, From 2015.
- Chairman, Nanyang Education Award (School) for NBS, 2013.
- Chairman, School committee for Nanyang Award for Teaching Excellence, NBS,

2012.

- Member, Nanyang Education Award (College), 2013.
- Coordinated the development of criterion for the School Teaching Excellence Award, 2010.
- Member, India Outreach Task Force for PhD Programs, NTU, 2011-2012.
- Member, Research Advisory Committee (NTURC), NTU, 2008-2009.
- Member, Provost-Dean Group Research Drivers Committee, NTU, 2008.
- Member, Nanyang Awards Committee (2008).
- Member, PhD & Research Committee, Nanyang Business School, 2008-2009.
- Chairman, ITOM Faculty Search Committee, From 01/2008.
- Member, Marketing Faculty Search Committee, From 01/2008.
- Deputy Chairman, School Equipment Committee, 1994-1998.
- Member, Division Faculty Recruitment Committee, 2005-2006.
- Member, Division Tenure and Promotion Committee, 2005-2006.
- Member, School Productivity Committee, 1999.
- Member, Logistics Committee, MIT-NTU Conference, 1995.
- Member, School Equipment Committee, 1993-1994.

#### **SERVICE TO ACADEMIC COMMUNITY**

- Editorial Review Board, *Production and Operations Management*, From 2002- .
- Senior Editor, *Decision Sciences*, 2014 - 2017.  
(recognized as Outstanding Senior Editor for the Journal in 2014)
- Co-Editor, *Journal of Operations Management*, Special Issue on “Supply Chain Management in Emerging Markets”, 2014/15.
- Member of the Advisory Board, Singapore University of Technology & Design (SUTD), Engineering Systems & Design Pillar, 2020-2021.
- Editorial Board Member, *International Journal of Production Research*, 2009-2019.
- Reviewer, Israel Science Foundation Grant Proposals, 2016, 2018.
- Associate Editor, *IEEE Transactions on Automation Science and Engineering*, 2005-2008.
- Associate Editor, *Asia Pacific Journal of Operational Research*, 2005 – 2012.
- Special Issues Editor, *Asia Pacific Journal of Operational Research*, 2008-2010.
- Editorial Board Member, *Technology, Operations and Management*, From 2010-
- Editorial Board Member, *International Journal of Services and Operations Management*, From 2004-
- Editorial Board, *International Journal of Integrated Supply Chain Management*, 2009-

- Editorial Board, IIMS Journal of Management Science, 2015-2017.
- Editorial Board, PRERANA:Journal of Management Thought and Practice, 2010-.
- Member of the review panel, Science & Engineering Research Council (SERC) Programme in Logistics and Supply Chain Management, Agency for Science, Technology & Research (A\*STAR), Singapore, 2012, 2014.
- External Assessor, Research Grants Council (RGC) of Hong Kong, 2002, 2003, 2012, 2013, 2016.
- External Assessor, USCI University, Malaysia, for Supply Chain & Operations Management Program, 2016-2018.
- External Expert for Operations Faculty Recruitment, IIM Calcutta, September, 2013, and March 2018.
- External Expert for Operations Faculty Recruitment, IIM Udaipur, November, 2019.
- External Expert for Operations Faculty Recruitment, IIM Tiruchirappalli, June 2012, and December 2016.
- External Reviewer, Tenure & Promotion Case for several business schools such as SUNY (State University of New York), Melbourne Business School, Singapore Management University, IIM Bangalore, City University of Hong Kong, Hong Kong Polytechnic University, Hang Seng Management College, Hong Kong Baptist University.
- Member, Executive Committee, International Society for Inventory Research, 2002-2004.
- Reviewer: Logistics Management, Operations, Manufacturing Management and General Business Textbooks for Prentice Hall, McGraw Hill and World Scientific.
- Reviewer for following Journals:  
*Management Science, Operations Research, Decision Sciences, MSOM, Production and Operations Management, Naval Research Logistics, IIE Transactions, Transportation Science, International Journal of Production Research, IEEE Transactions on Automation Science and Engineering, European Journal of Operational Research, International Journal of Production Economics, Omega: International Journal of Management Science, Annals of Operations Research, INFOR, Computers and Industrial Engineering, Computers and Operations Research, Asia Pacific Journal of Operational Research, International Journal of Operational Research, IEEE Transactions on Systems, Man and Cybernetics, IMA Journal of Management Mathematics, International Journal of Logistics: Research & Applications, International Journal of Computer Integrated Manufacturing, OR Spektrum, OPSEARCH, Optimal Control Applications and Methods, Transportation Research, International Transactions in Operations Research.*
- Member, Program Committee, MSOM Conference, 2019.
- Member, Program Committee, POMS International Conference, 2014.
- Member, International Scientific Committee, Global Business Innovation and Development Conference, Rio de Janeiro, Brazil, 2008.
- Member, Organizing Committee, International Conference on Logistics 2001, Organised by NTU and Carnegie Mellon University.
- Member, Conference Program Committee, Global Business Institute, 2002-2008.
- Member of Management Committee, OR Society of Singapore 1993-1995.

**PROFESSIONAL/INDUSTRY SERVICE**

- Member of the Advisory Board, Singapore University of Technology & Design (SUTD), Engineering Systems & Design Pillar, 2020-2021.
- Member of the Advisory Board, EcoLabs Centre of Innovation for Energy @NTU, 2019-2022.
- Member of the Board, ISCN - International Sustainable Campus Network (NTU representative), 2019-2020.
- Member, Singapore Sustainability Reporting Awards Panel, Singapore Institute of Directors, 2018.
- Member, Singapore Business Sustainability Awards Finalists Panel, 2014, 2015.
- Member of the review panel, Science & Engineering Research Council (SERC) Programme in Logistics and Supply Chain Management, Agency for Science, Technology & Research (A\*STAR), Singapore, 2012, 2014.

**CONSULTING/EXECUTIVE PROGRAMMES**

- Stewardship Asia Center, Temasek (2018-19).
- Alstom (2018, 2019).
- Advisor Shanghai Zhanlai Information Technology Co. Ltd, 2017.
- Essilor International (2007, 2008, 2009, 2012, 2013, 2014, 2015)
- Workforce Development Authority (2015)
- Esade (2014)
- Lagos Business School (2014, 2015, 2016)
- Spring Singapore (2010-2014)
- RGE International (2007, 2011, 2012, 2020)
- INSEAD (2012)
- National Panasonic (2007, 2008)
- Singapore Petroleum Company (2008)
- Chartered Institute of Transport (2000 to 2009)
- NTUC FairPrice Supermarkets (2004, 2005)
- RTA Global (2003, 2004)
- TNT Logistics (2003)
- Matsushita Electric (2002)
- Ministry of Foreign Affairs (2002)
- Singapore Airlines Engineering Company (1999)
- IBM/Chartered Institute of Transport, Singapore (1997)
- Rothmans International, Singapore (1996)
- Singapore International Chamber of Commerce (1995)
- Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A. (1989)
- Ohio Bell, Cleveland, Ohio, U.S.A. (1989)

**COMPUTER SKILLS**

- Good working knowledge of UNIX and Windows, including shell scripts, batch files and Windows OS registry.
- Strong expertise in C, FORTRAN, Pascal, and optimization software such as Gurobi and SAS.
- Expertise and experience in trouble shooting software problems.
- Experienced in developing codes for algorithms and heuristics for optimization problems in Logistics and Operations Management.

**REFERENCES**

- Will be provided upon request

August 15, 2020