

CONTACT ADDRESS & PERSONAL INFORMATION

Dr. S. Viswanathan

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Age: 61 years (17-June 1962); Married, 2 children. Nationality: Singapore.

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CURRENT POSITIONS

2008 – Present, Professor of Operations & Corporate Sustainability, Nanyang Technological University, Singapore.

2016 – Present, Director, Centre for Business Sustainability, Nanyang Business School, NTU.

2016 – 2024, Cluster Director, Energy Research Institute @ NTU (ERI@N), NTU.

EMPLOYMENT HISTORY

2014 - 2019, Associate Dean (Research), Nanyang Business School, NTU.

2008 - 2014, Head, Division of IT & OM, Nanyang Technological University, Singapore.

2011 – 2015, Program Director, Management Development Program @ NBS.

2015 – 2021, Fellow, Renaissance Engineering Programme, NTU.

2009 – 2013, Acting Interim Dean, Nanyang Business School on an adhoc basis, when Dean was travelling.

2001 – 2005, Director, PhD Programme in Business, Nanyang Business School.

2001 – 2009, Associate Director & earlier Programme Director, MBA Programme.

1999 – 2007, Associate Professor with Tenure, Nanyang Technological University, Singapore.

1992 – 1998, Lecturer, Nanyang Technological University, Singapore.

1997 – 1998, Visiting Professor, Cox School of Business, Southern Methodist University, Dallas, TX.

1986 - 1988, Operations Auditor, Tube Investments of India Ltd., Madras, India.

EDUCATION

Ph.D. (Operations Research), 1988-1992, Case Western Reserve University, U.S.A.

M.B.A, 1984-1986 (Gold Medallist), Indian Institute of Management, Calcutta.

B.Tech (Mechanical Engineering), 1979-1984, Indian Institute of Technology, Madras.

RESEARCH INTERESTS AND EXPERTISE

Corporate Sustainability, Life Cycle Analysis, Energy Modelling, Policies for Carbon Control, Inventory Management, Optimization, Joint Replenishment Inventory Systems, Transportation and Urban Mobility, Supply Chain Management, Remanufacturing & Reverse Logistics, Manufacturing Systems, Forecasting.

TEACHING INTERESTS

Corporate Sustainability, Operations & Supply Chain Management, Inventory Theory, and Optimization in UG, MBA, PhD & Executive programs. Average teaching score of 4.45 on a 5 point scale.

PUBLICATIONS

Over 100 papers in conferences, book chapters & journals, such as *Management Science*, *Operations Research*, *Production & Operations Management*, *Journal of Operations Management*, *Naval Research Logistics*, *IIE Transactions*, *Operations Research Letters*, *International Journal of Production Research*, *European Journal of Operational Research*, *Journal of the Operational Research Society*. Selected publications listed below.

- V. V. Khanpit, S. Viswanathan, & O. Hinrichsen (2024) "Environmental impact of animal milk vs plant-based milks: Critical review" *Journal of Cleaner Production*, <https://doi.org/10.1016/j.jclepro.2024.141703>.
- J. L. Martin & S. Viswanathan (2023) "Feasibility of Green Hydrogen-Based Synthetic Fuel as a Carbon Utilization Option: An Economic Analysis," *Energies*, <https://doi.org/10.3390/en16176399>.
- G. A. Chua, Y. Feng, J. R. L. Senga, S. Viswanathan (2023) "An Efficient Approximation to the Pull Policy for Hybrid Manufacturing and Remanufacturing Systems with Setup Costs," *Institute of Industrial and System Engineering (IISE) Transactions*, <https://doi.org/10.1080/24725854.2023.2253294>.
- K. R. Preethi, and S. Viswanathan (2020) "Carbon Pricing Strategies for Multi-Unit Firms," *POMS Annual Conference*, Minneapolis, Minnesota, USA, April 2020.
- K. Z. Zhou, C. Su, A. Yeung, S. Viswanathan (2016), Supply Chain Management in Emerging Markets," *Journal of Operations Management*, 46, September 2016, 1-4.
- 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.
- M. M. Srinivasan & S. Viswanathan, (2013), "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, 2013
- S. Viswanathan, (2007), "Algorithm for best lower bound for Stochastic JRP" *Operations Research*, 55, 992-996.
- S. Viswanathan and K. Mathur, (1997) "Integrating Routing & Inventory", *Management Science*, 294-312.
- S. Viswanathan (1997) "Periodic Review (s, S) Policies for Joint Replenishment Systems", *Management Science*.

RESEARCH GRANTS

Over \$10.2 Million funding as PI or co-PI from NRF, A*Star, and MOE/NTU:

- Transport Decision Making Study, \$392,202, Research Consultancy Project from Land Transport Authority to Centre for Business Sustainability, PI, 2023.
- Singapore's Pathway to Carbon Neutrality: Analysis of New Technologies," \$4.99 Million, NRF grant under Inter-CREATE Collaborative grant, Lead PI for NTU. NTU share of the grant is \$2.246 Million, 2022
- Protein4Singapore, \$24.9 Million, NRF Grant under CREATE Program for 5 years, Lead PI for topic – Life Cycle Analysis & Total Supply Chain Value Assessment, for which the grant amount is \$1.52 Million, 2022.
- End-to-End Supply Chain Design for Additive Manufacturing, \$520,000, NRF Grant thro' HP-NTU Corp 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 IRP "Better Business Models" is \$1,149,183, 2018-2025.
- Locating Stewardship, Governance and Sustainability, \$57,780, Stewardship Asia Centre, 2018.
- Achieving "Car-Lite Singapore": Understanding Motorist Behaviour and Developing Interventions, \$679,782, [Co-PI], National Research Foundation (NRF) Grant, 2017.
- Carbon Control Policies for Climate Change Mitigation, \$81,115, AcRF Tier 1 Grant, 2016.
- Optimization Models for Capacity & Service Enhancements in Rail Systems, \$84,834, AcRF Tier 1 Grant, 2014.
- Inventory control for after-market service networks, \$10,000, Nanyang Research Excellence Award, 2012.
- Impact of Carbon Control on Operations & Supply Chain, \$250,000, New Initiative Fund, 2011.
- Decision Models for Optimal Positioning and Use of Information and Communication Technologies (ICT) in the Supply Chain, \$60,000, AcRF Tier 1 Grant, 2010.
- Optimization of Service Networks for Reverse Logistics, \$632,406, [Co-PI], AStar, 2006.

SERVICE TO PROFESSION

- Member Advisory Board, SUTD, Engineering Systems & Design Pillar. 2020-2023
- Member of the Advisory Board, EcoLabs Centre of Innovation for Energy @NTU, 2019-2022.
- Editorial Review Board, *Production and Operations Management*, 2002 –
- Co-Editor, *Journal of Operations Management*, "Supply Chain Management in Emerging Markets", 2014/15.
- Senior Editor, *Decision Sciences*, 2014 – 2017.
- Member of the Board, International Sustainable Campus Network (NTU rep), 2019 – 2020.
- Member of the review panel, SERC Programme in Logistics and Supply Chain Management, Agency for Science, Technology & Research (A*STAR), Singapore, 2012, 2014.
- Editorial board, *International Journal of Production Research*, 2009 – 2019.
- Associate Editor, *IEEE Transactions on Automation Science and Engineering*, 2005–2008.
- External Reviewer, Tenure & Promotion Case for several business schools such as State University of New York, Melbourne Business School, IIM Bangalore, SMU, CityU of HK, PolyU of HK, HK Baptist University.
- External Assessor, Research Grants Council (RGC) of Hong Kong, 2002, 2003, 2012, 2013, 2015.
- Reviewer for over 27 academic journals such as *Management Science*, *Operations Research*, *MSOM*, *DS*, *IJPR*, *EJOR*, *IIE* & *IEEE Transactions & Research Councils* such as RGC Hong Kong, Israel Science Foundation and NRF.
- External Expert for Operations Faculty Recruitment, IIM Calcutta, IIM Trichy, IIM Udaipur, 2012 - 2019.
- Member, Singapore Business Sustainability Awards Finalists Panel, 2014, 2015.

CONSULTING & EXECUTIVE EDUCATION EXPERIENCE

BCG (2023,2024), Bridgestone (2022-23), Alstom (2018-2023), TTSH (2022-23), RGE (2020-23), Lagos Business School (2014, 2015, 2016), Workforce Development Authority (2015), Esade (2014), INSEAD (2012), Spring Singapore (2010-2014), Essilor International (2007-2015), RGE (2007-2012, 2020), National Panasonic (2007-2008), Singapore Petroleum Company (2008), RGM International (2007), NTUC Fairprice (2004-2005), TNT Logistics Asia (2003), Matsushita Electric (2002), Ministry of Foreign Affairs (2002), Chartered Institute of Transport (2000-2009), SIA Engineering Company (1999), IBM/CIT (1997), Rothmans International, (1996), Singapore Intl Chamber of Commerce (1995), Cleveland Clinic (1990).

AWARDS AND HONOURS

- Outstanding Faculty Advisor & Mentor Award, by IEOM Society International, March 2021.
- Long Service Medal, Singapore National Day Honours, 2018.
- Award for Outstanding Senior Editor of *Decision Sciences* Journal, 2014.
- Nanyang Award for Research Excellence, 2010. (University-wide research excellence award).
- Who's who in the world, 1997, 2012, 2013, 2014, 2015, 2016, 2017, 2018; Who's who in Science and Engineering, 2001, 2003; Who's who in finance & industry, 2001, 2002; Who's who is Asia, 2006, 2011.
- Teacher of Division, 2003. Nominee -Teacher of Division, 2002,2004-2006. Nominee - Teacher of School, 2003.
- Winner of several prizes including the Chairman's Prize, John Wyne Prize, Calcutta Management Association Prize and Dr. B.C. Roy Gold Medal at IIM Calcutta. Included in the Institutes Honour Roll.
- Gold Medallist and First Rank Holder for MBA at IIM Calcutta.