

CURRICULUM VITAE

RAMAKRISHNAN RAMANATHAN (Ram)

Professor

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Academic Profile

Professor Ram Ramanathan has more than thirty years of academic experience, working in the higher education in multiple countries (UAE, the UK, Finland, the Netherlands, Oman and India). Prior to joining the University of Sharjah, Ram worked as a Professor at the University of Essex Business School, Southend-on-Sea, UK. He has taught basic and advanced courses on Operations Management, Production Systems Management, Supply Chain Management, Optimization Theory, Data Envelopment Analysis (DEA), Management Science, Business Statistics, Simulation, Energy and Environment, Energy and Environmental Economics, Energy and Transport Economics, and others. His research interests include operations management, supply chains, the use of Big Data, Internet of Things and Blockchain technologies for productivity improvement in enterprises and also for social causes, economic/environmental/policy analysis of issues in the energy, agriculture, transport and other infrastructure sectors. He works extensively on modelling using techniques such as optimisation, decision analysis, data envelopment analysis and the analytic hierarchy process.

Ram has successfully completed more than 48 research projects across the world with funding more than £8 million. Ram is on the editorial boards of several journals and in the technical/advisory committees of several international conferences in his field. He is a member of ESRC Peer Review College in the UK and reviews applications submitted to various funding bodies. He has produced six books (including a new book on Big Data Analytics using Multi-Criteria Decision Making, and an introductory textbook on DEA), more than 160 research publications in journals and more than 203 conference presentations. His research articles have appeared in many prestigious internationally refereed journals including *Omega*, *Journal of Business Ethics*, *Technology Forecasting and Social Change*, *International Journal of Production Economics*, *Supply Chain Management*, *International Journal of Operations & Production Management*, *European Journal of Operational Research*, *Transport Policy*, and *Transportation Research*.

More details about Professor Ramanathan are available at the following links.

LinkedIn: <https://www.linkedin.com/in/ramakrishnan-ram-ramanathan-20450a12/>

Publons/ResearcherID: <https://publons.com/researcher/2707821/ramakrishnan-ramanathan/>

Google Scholar: <http://scholar.google.co.uk/citations?user=1CBQZA8AAAAJ>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57575222600>

ORCID: <https://orcid.org/0000-0002-8861-2209>

Facebook: <https://www.facebook.com/ProfRamanathan>

Twitter: @ProfRamanathan; <https://twitter.com/ProfRamanathan>

Education

- **Doctor of Philosophy** (1993) Indian Institute of Technology Madras, India
- **Master of Technology** (1988) Indian Institute of Technology Madras, India
- **Graduate of the Institute of Cost and Works Accountants, India** (1988)
- **Bachelor of Engineering (Honours)** (1987), Madurai Kamaraj University, India

A brief summary of this CV

- More than 31 years of academic experience in teaching/research/academic administration across multiple countries (UK, India, Oman, Finland and the Netherlands).
- Total number of projects handled so far: 48 (of which 22 projects as the principal investigator).
- Total funding generated so far: More than £8 million
- No. of PhD students supervised to completion so far: 20
- No. of M.Phil students supervised to completion so far: 4
- External examiner for taught programmes in 4 UK universities
- External examiner for 27 PhD thesis, 2 Masters by Research theses.
- I have been ranked top researcher in Business & Management and in Operations Research by an independent team of researchers in Stanford University in November 2020.

Rank with no self-citations for Ramakrishnan Ramanathan, University of Bedfordshire.		
Country: GBR		
Subfield	Rank – Single Year 2019 citation	Rank – Career citations
Business and Management	4 out of Top 152 researchers	9 out of top 104
Operations Research	2 out of Top 50	3 out of Top 41
Both OR and Business	1 out of Top 18	1 out of Top 9
Source: Database available at the article Ioannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918. https://doi.org/10.1371/journal.pbio.3000918		

- Research publications:

	Sole author	First author	Member of a team	Total
Refereed journal articles	45	33	55	133
Other journal articles	1	1	1	3
Chapters in books	5	9	12	26
Total research papers	51	43	68	162
Books and Monographs	2	2	3	7
Conference/ invited presentations	89	53	71	213

- Google scholar citations: 14757; H-Index: 55.

Awards and Honours

Over the last 25 years, I have been receiving several honours, including scholarships, guest lectures, tutorial presentations, invitations to Key Note Addresses in international conferences and workshops, external examinations for PhD/Masters by Research theses, visiting appointments, best paper awards, assessing promotion applications to educational institutions, assessing fellowship applications to funding bodies, reviewing funding applications, reviewing papers for journals/conferences, editorial boards of international conferences, etc.

1. I have been honoured as the Fellow of the Operational Research Society of India (ORSI), one of the oldest operational research societies, in December 2023.
2. Scientific Committee member, DEA24: International Conference on Data Envelopment Analysis, BIMTECH, New Delhi, India, November 2024.
3. One of my papers, entitled "Group preference aggregation methods employed in the AHP: An evaluation and an intrinsic process for deriving members' weightages" (*European Journal of Operational Research*, 1994, 79, 249-265), identified a serious flaw in one of the well accepted group preference methods, and is cited regularly by papers dealing with this topic.
4. In 2006, I created a new multi-criteria analysis technique called Data Envelopment Analytic Hierarchy Process (DEAHP) combining AHP and DEA techniques. This paper is titled "Data Envelopment Analysis for weight derivation and aggregation in the Analytic Hierarchy Process," (in *Computers & Operations Research*, 33(5), 1289-1307). This has been very popular among researchers, receiving good citations and kindling further research by more researchers worldwide.

5. A paper written jointly with my research student (Wantao Yu) entitled “An assessment of operational efficiencies in the UK retail sector” published in *International Journal of Retail & Distribution Management* has been chosen as an **Outstanding Paper Award Winner** at the prestigious **Emerald Literati Network 2009 Awards for Excellence**.
6. A paper jointly written with Usha Ramanathan entitled “Guests’ Perceptions of Factors Influencing Customer Loyalty: An Analysis for UK Hotels” published in *International Journal of Contemporary Hospitality Management* has been chosen as one of the three highly commended papers at the prestigious **Emerald Literati Network 2012 Awards for Excellence**.

Areas of Specialization

Operations Management, Big Data issues, Internet of Things, Blockchain, Supply Chain Management, Logistics, E-commerce, Management Science, Environmental sustainability, Interplay among sustainability, innovation and firm performance, E-commerce, Innovation, Performance Analysis, Single and Multi-Objective Optimization, Data Envelopment Analysis, The Analytic Hierarchy Process, Multivariate statistical analysis, Structural equation modelling, Case study research, qualitative research, Grounded Theory, Energy, Transport, and Socio-Economic Impact Assessment of developmental projects.

Previous Work Experience

1. Visiting Professor, Essex Business School, University of Essex, Elmer Approach, Southend-on-Sea, SS1 1LW, United Kingdom (since September 2023)
2. Professor of Business and Management, Essex Business School, University of Essex, Elmer Approach, Southend-on-Sea, SS1 1LW, United Kingdom (Nov 2021 – August 2023)
3. Visiting Professor, Henan University Business School, China, for five years from June 2017.
4. Professor of Operations Management and Director of Business and Management Research Institute, University of Bedfordshire, Luton, from September 2011 until October 2021.
5. Associate Professor in Operations Management, Nottingham University Business School from January 2006 to September 2011.
6. Visiting Professor, Jaipuria Institute of Management, Lucknow, India, for three years from September 2017.
7. Associate Professor, Operations Management and Business Statistics, College of Commerce and Economics, Sultan Qaboos University, from June 2005 to January 2006, and Assistant Professor in the same University from August 2001 to June 2005.
8. Associate Professor at the Indira Gandhi Institute of Development Research, Bombay, from September 1999 to August 2001, and Assistant Professor at the same Institute from August 1993 to August 1999.
9. I held the following visiting positions while working at the Indira Gandhi Institute of Development Research, Bombay (during the period August 1993 – July 2001).
 - Visiting Professor at the Systems Analysis Laboratory, Helsinki University of Technology, Finland during 2000-01.
 - Senior Research Fellow at the Faculty of Information Technology and Systems, Delft University of Technology, The Netherlands from May to September 1999.
 - Post-Doctoral Fellow at the Faculty of Technical Mathematics and Informatics, Delft University of Technology, The Netherlands from September 1995 to February 1996.

Projects

Submitted Research Proposals

1. Principal Investigator, "A review of Operations Management Applications of Data Envelopment Analysis (OMDEA)", Proposal submitted for UoS Seed Research Grant, November 2023. AED 40,000 for 12 months.

Ongoing Projects

2. Co-investigator, "Co-creation of Future Flight Ecosystems and Enterprise (CoFFEE)", Proposal successful for the research grant Theme 4: Grant E - Future Flight Ecosystems and Enterprises, 2023-2024 Future Flight Challenge Social Science Grant programme, funded by ESRC and the UKRI's Industrial Strategy Challenge Fund (ISCF). £ 149,992.00, 14 months. PI is Dr Chris Parker, Loughborough University. Another co-investigator is Professor Graham Parkhurst, University of West of England. January 2023.

Completed Projects

3. KTP – Principal investigator (KTP Knowledge base Lead), "Supporting operations, marketing and digital offerings of a UK's leading Air-Source Heat-Pump installer for rapid growth", a **Knowledge Transfer Partnership** (KTP) application successful in 2022-2023, round 2 to the Innovate UK. The participating SME is EPC Improvements Ltd based in Chelmsford. 31 months. Value: £247,518. (My role has been delegated to a colleague in Essex Business School as I left the university.)
4. KTP - Co-investigator, "Digitising, modernizing and embedding advanced analytic decision-making tools in the UK's leading independent juice and spice purveyor", a **Knowledge Transfer Partnership** (KTP) application funded by 2022-2023, round 1 to the Innovate UK. The participating SME is Gerald McDonald and Company Limited based in Basildon. September 2022 – August 2024 (24 months). Value: £190,183. (My role has been delegated to a colleague in Essex Business School as I left the university.)
5. Co-investigator, "Project Insight - Fruit Scouting Robot Validation and Integration into Supply-Chain", Funded by the Farming Innovation Pathways (FIP) – industrial research - Innovate UK funding competition. January 2022 - December 2023. Value: £730,760. Led by Mr Marc Jones of Antobot Ltd. for developing a Scouting Robot, AGRI-EPI CENTRE LIMITED (research), BARDSLEY FRUIT FARMING LIMITED (Apple grower) and PLACE UK LIMITED (Strawberry grower). Project number: 1000465510004655.
6. Co-investigator, "Carbon Footprint Estimation with Technical Inputs from the Plant Sciences (CAFÉ-TIPS) - The personal carbon capture calculator," proposal funded by BBSRC Impact Acceleration Account Commercial Accelerator Fund, November 2022-March 2023. £11,921.94 (exc VAT). Dr Adrian Clark from University of Essex Computer Science department is the Principal Investigator. Prof Tracy Lawson from Life Sciences is another co-investigator.
7. Co-investigator, "Commercializing machine learning to reduce food-waste at farms and shops," proposal funded by BBSRC Impact Acceleration Account Commercial Accelerator Fund, November 2022-March 2023. £22,239.05 (exc VAT). Somdip Dey from University of Essex Computer Science department is the Principal Investigator.
8. Consultancy – "The Porter Hypothesis and Chemical Regulation", project successful in securing DEFRA funding (evaluating the Porter Hypothesis in the UK Chemicals sector). £49,900. Led by the consultancy firm ICF Consulting Services Ltd., UK. September 2022 – March 2023.
9. Principal Investigator, "Improving Resource Efficiency of Agribusiness supply chains by Minimising waste using Big Data and Internet of Things sensors (REAMIT)", Project number 831 funded by the Interreg North West Europe (NWE), January 2019 - June 2023. (www.reamit.eu) Total budget for the project is € 5,738,739.91 The duration of the project is 54 months. The project is being carried out in Ireland, Germany, France, the UK and the Netherlands with support from six universities (University of Bedfordshire - UK, University College Dublin - Ireland, Université de Nantes - France, Nottingham Trent University – UK, Ulster University - UK, and the Institute of Technology in Tralee, Ireland), 4 SMEs (Images & Réseaux - France, Levstone Ltd. – UK, Whysor – the Netherlands, SenX – France)

and a large logistics end-user WD Meats (Northern Ireland) in the UK. More agribusiness end-users are being recruited during the implementation of the project.

10. Co-investigator, "Building Virtual Learning Platform for Environmentally-Friendly Digital Transformation Management (DigiVIP)", Funded by the Erasmus+ Action: KA226 - Partnerships for Digital Education Readiness, April 2021- March 2023. Value: €263,211. (Led by Istanbul University, Turkey)
11. Co-investigator, "Improving sustainability in Colchester with reduced single-use plastics", Funded by the Impact Acceleration Account Climate and Ecological Emergency Challenge Lab of Colchester Borough Council (via UKRI). Debashree De is the principal investigator and Patrick Lown (Government Department, University of Essex) and Sam Good (Business Improvement District Manager - Our Colchester) are the other co-investigators. £13,750. April-December 2022.
12. Principal Investigator, "Exploring the motivations of the aerospace industry stakeholders in influencing future flight business models (FFBM)", Executive Dean fund, Essex Business School, £1,500. March-July 2023.
13. Principal Investigator, "Exploratory study to understand the feasibility of AI driven psychometric tool in UK higher education", Innovation Voucher, University of Essex, for OLT ERP LIMITED, London. £12,430. April-July 2022.
14. Principal Investigator, "The transformative role of digital technologies for resilience in Fresh Food supply chains in response to the COVID-19 Pandemic", Funded by the University of Essex Rapid and Agile Project Fund, April-July 2022, £37,576.33. (Prof Suma Atreye, Dr Young-Ah Kim and Dr Debashree De are co-investigators.)
15. Co-investigator, "Understanding Commercialisation Potential of Embedded Machine Learning Technology to Help in Achieving Net Zero Emissions", Funded by the Priority Challenges Project Fund, University of Essex. April – July 2022, £44,440. (Dr Amit Singh, CSEE Department, University of Essex is the Principal Investigator.)
16. Co-investigator, "Developing an Interdisciplinary Framework to Combat Food Waste in the UK Aquaculture Supply Chain", Funded by the Research Sandpit Fund 2022: Climate, Ecology, Sustainability, University of Essex. John Azure (from Accounting) EBS is the PI. Chao She (Accounting), Akalemwa Ngenda (Solicitor) and Michael Steinke (Food technology) are the other co-investigators. £10,000. April-July 2022.
17. Co-investigator, "An evidence-based and collaborative decision-making system to change social norms towards zero food waste (ALL4FOOD)", proposal submitted for Horizon Europe for the call HORIZON-CL6-2021-FARM2FORK-01 (Fair, healthy and environmentally-friendly food systems from primary production to consumption), October 2021, 36 months, €6 million. UoE Share: €302,664.
18. Principal Investigator, "Implementing technology solutions for sustainable development of artisanal fisheries in Santa Catarina (TAF)", project funded by Newton Fund Institutional Links programme, The British Council. April 2018 – March 2020. Brazilian PI: Prof Jaoqim Manoel Monteiro Valverde (Instituto Federal de Educação, Ciência e Tecnologia Catarinense, Brazil), 2 co-investigators each from the UK and Brazil, six associated partners (one from the UK and five from Brazil). Value: £99,902.
19. Co-investigator, "Leeds Children's Services: Reimagining child welfare services for the 21st century", project funded by Department for Education - Children's Social Care Innovation Programme/ Partners in Practice, April 2018- April 2020, £374,681. Dr Julie Harris/Prof Emily Munro from the Institute for Applied Social Research in UoB are the principal investigators.
20. Co-investigator, "Data-driven agri-food supply chains for sustainability and productivity: A case in Henan Province, China", Project successful in response to the STFC Food Network+ (SFN) Collaborative Scoping call. £8,000. Professor Wantao Yu (Roehampton) is the PI. Other co-investigators are Dr Tom Kirkham and Tom Collingwood (both of STFC), Dr Sonal Choudhary (Sheffield), Prof Jiehui Wang (Henan University) and Jinqxi garlic, Kaifeng. May – November 2018.
21. Co-investigator, "Augmented Procurement Visibility (APROV): Developing the self organising capability of agricultural procurement systems", Project successful at the Science & Technologies Facilities Council (STFC) Sandpit Event, 26-27 February 2018, £8,000. Dr Lusiano Batista (Northampton) is the PI. Other co-investigators are Professor Wantao Yu (Roehampton), Tom

- Kirkham and Brian Mathews (both of STFC), Ms Pascale Martin (from Agronomex – a start up on Big Data finance platform) and Ms Ximena from Manchester. April – October 2018.
22. Co-investigator, “Understanding the state of the art research on the use and impact of Big Data and Analytics: A systematic literature review”, project internally funded by the Business & Management Research Institute, University of Bedfordshire, UK. £4,050. PI is Professor Yanqing Duan. Other Co-investigators are Dr Guangming Cao and Dr. Nasrullah Khilji. (December 2017 – July 2018).
 23. Co-investigator, “Supporting SMEs in using Big Data in China with UK experience”, project internally funded by the Business & Management Research Institute, University of Bedfordshire, UK. £5,000. PI is Professor Yanqing Duan. Other Co-investigators Professor Zetian Fu (China Agriculture University) and Mr Ruiqian Li, Harbin University of Commerce, China. (December 2017 – July 2018).
 24. Principal Investigator, “Supporting SMEs in using Big Data in India with UK experience (SME-BD)”, project internally funded by the Business & Management Research Institute, University of Bedfordshire, UK. £5,000. Co-investigators are Professor Yanqing Duan and Professor Rajesh Devadas (Madurai School of Management, India). (January – July 2017).
 25. Co-investigator, “Understanding SMEs corporate sustainability behaviour from a personal value’s perspective”, project internally funded by the Business & Management Research Institute, University of Bedfordshire, UK. £2,212.40. PI is Professor Yanqing Duan. Other Co-investigators are Sarah Williams and Gbemisola Oyedepo. (January – July 2017).
 26. Co-investigator, “Data innovations and sustainability in agri-food supply chains: Evidence from Henan Province, China”, Project funded by Agri-Tech in China: Newton Network+: Pathfinder Awards, October 2016. (Wantao Yu is the PI and Yanqing Duan, academics from Henan University and China Agriculture University plus two Chinese and two UK SMEs are also part of the team). £4,000.
 27. Lead academic consultant, Innovation Bridge project with Levstone Software Solutions, Milton Keynes (£10,000). This is part of the ICT Escalator Project, which in turn is part of three-year (2016-19) £3.896 million economic development project, part funded by the European Union European Regional Development Fund, administered by Central Bedfordshire Council via the University of Bedfordshire (Nov. 2016-Feb. 2017).
 28. Lead academic consultant, Innovation Bridge project with Astute Business Analytics, Northampton (£5,000). This is part of the ICT Escalator Project, which in turn is part of three-year (2016-19) £3.896 million economic development project, part funded by the European Union European Regional Development Fund, administered by Central Bedfordshire Council via the University of Bedfordshire (Nov. 2016-Feb. 2017).
 29. Research partner, “Data driven port decision making models for Ningbo Port in China”, project run by the Nottingham University Business School Ningbo Campus in China (3 years from July 2015) (my research visits are funded by the project). (Value £2,000).
 30. Principal Investigator, “Big Data in Logistics: An exploratory investigation”, A proposal funded by the British Academy/Leverhulme Small Research Grants, (Value £10K). Co-investigators: Yanqing Duan, Usha Ramanathan and Elly Philpott. (01 April 2014 – 31 July 2015).
 31. Principal Investigator, “Investigating the diffusion and impact of big data and business analytics on performance of retail firms in the UK”, Approved by Research Investment Programme, University of Bedfordshire. Co-Investigators: Yanqing Duan and Guangming Cao. Value: £20,000. (Feb. –July 2012).
 32. Member of project team, “Agricultural sustainability in a transition economy” Project funded by the University of Nottingham (internal research funding). PI: Prof M D Steven (School of Geography), CIs: S. Azam-Ali (UNMC), K. Millar (Biosciences), R. Ramanathan (Business School), S. Jewitt (Geography). Value: £10,000. (Completed Sep. 2011)
 33. Member of project team, “Sustainable Urban Agriculture through Innovative Vertical Farming” Proposal submitted to the University of Nottingham (internal research funding). PIs: Dr. Chungui Lu, (Biosciences) and Gérald Busca (Environmental Technology Centre), CIs: Mark Gillott (Architecture & Built Environment), Erik Murchie (Biosciences), Arthur Williams (Electrical Engineering) and Ramakrishnan Ramanathan (Business School). Value: £10,000. (Completed Sep. 2011)

34. Principal Investigator, "Investigating the impact of environmental regulations on innovation, performance and sustainability in UK Manufacturing Sector (ERIPS)", funded by the Nottingham Innovative Manufacturing Research Centre (NIMRC), which in turn is funded by EPSRC, UK. Budget: £80,000. Duration: 29 months (Feb 2008 – June 2010) (Co-investigators: Dr. Luc Muyldermans and Dr. Prithwiraj Nath. Research Associate recruited for the project: Mr. Andrew Black) (Status: completed in June 2010).
35. Member of project team, "Next Generation Supply Chains and Digital Economy Research Collaboration (NEX-GEMS)", funded by EPSRC under the Interact programme, 2008-2010. (PI: Prof Chandra Lalwani, University of Hull, with other members from Universities of Hull, Nottingham, Loughborough, Brunel and Cardiff in the UK, and IIM Bangalore, IIT Bombay, IIT Kharagpur, IIM Calcutta in India, and other industries.) Budget: £106,000. (Status: completed in February 2010).
36. Principal Investigator, "Investigating the interrelationships among environmental sustainability, innovation and performance in UK Retail Industry", NUBS Research Directorate Special Fund. Budget: £4,000. Duration: 5 months. (Co-investigators: Dr. Luc Muyldermans, Dr. Prithwiraj Nath and Mr. Andrew Black. Research Assistant: Mr. Yu Wantao) (Status: completed in July 2009).
37. Co-investigator of Subproject titled "Planning and Management of Resources for Ecotourism – a Key to Biodiversity and Sustainable Development in Jebel Akhdar Region" of the main project titled "Jebel Akhdar Initiative- Conservation and sustainable development in a fragile arid mountain ecosystem", funded under the grant from His Majesty's fund, Sultan Qaboos University (SQU), Oman. (Project No. SR/AVP/CESR/04/01) (Status: completed in Feb 2008)
38. Co-investigator of Subproject titled "Environmental Impact Assessment, including Socio Economic Impact Assessment, of Jebel Akhdar – Search for its potential as a Nature Reserve" of the main project titled "Jebel Akhdar Initiative- Conservation and sustainable development in a fragile arid mountain ecosystem", funded under the grant from His Majesty's fund, SQU, Oman. (Project No. SR/AVP/CESR/04/01) (Status: completed in Feb 2008)
39. Funding for the main project (comprising nine subprojects) for three years is 65850 Omani Rials, which is equivalent to approximately £100,000, of which the share of the above two subprojects is about 15%
40. Co-investigator, "Analysing the network impacts of petrol stations", funded by Shell, Jun-Sep 07 (along with Dr. Luc Muyldermans).
41. Involved in a project on "Long-term workforce planning for Rolls-Royce" along with Professor Bart McCarthy, Nottingham University Business School. Jointly guided a Masters' student on the topic for her dissertation. Also guided a BEng dissertation on this topic.
42. Co-investigator for the internal research grant (No. IG/CCE/OMBS/03/01) for a research study titled "Trends in the development of the Transport sector in Oman and its implications on Oman economy", of Sultan Qaboos University. (Status: Completed in December 2004.) (Research grant for 1500 Omani Rials).
43. Principal investigator for the internal research grant (No.IG/CCE/OMBS/02/05) for a research study titled "Econometric studies on petroleum production and consumption in Oman", of Sultan Qaboos University. (Status: Completed in December 2003). (Research grant for 2800 Omani Rials).
44. "An Assimilative Study of the socioeconomic impacts of the proposed project of Utkal Alumina International Limited", (Status: Completed in September 2000) (Private consultancy grant for INR 300000).
45. "Socio-economic impact assessment of a proposed petrochemical plant of the Madras Refineries Limited", (Status: Completed in July, 1997) (Private consultancy grant for INR 300000).
46. "Western Regional Co-operation on Infrastructure: *Vision 2000*", Project on strategies for improving the development of transport infrastructure in the Western States of India - Maharashtra, Gujarat, Madhya Pradesh and Goa. Project Sponsored by the Indian Merchants' Chamber, Mumbai, India. (Status: Completed in January 1997.) (Research carried out voluntarily as part of Indira Gandhi Institute of Development Research, Mumbai, India).

47. "Environmental Cost-Benefit Analysis and Socio-economic impact assessment and of a proposed LPG pipeline of the Gas Authority of India Limited." (Status: Completed in October, 1996) (Private consultancy grant for INR 300000).
48. "Indian Transport Scenario during 1980-2020" Report to form a part of the study on "Scenarios for Energy Consumption and Structural Transformations Needed for Sustainability in the Indian Context", carried out for the INFRAS/AIE (International Academy of Environment, Geneva) project (Status: Completed in May, 1996).
49. "Socio-economic impact assessment of a proposed LPG bottling plant of the Gas Authority of India Limited." (Status: Completed in July, 1995) (Private consultancy grant for INR 300000).
50. "Socio-Economic Impact Assessment of the proposed expansion of NOCIL" Report prepared for the National Organic Chemical Industries Limited, Thane, India. (Status: Completed in January, 1995) (Private consultancy grant for INR 300000).

Professional Activities

Membership in Funding Body Activities

1. Fellow, Operational Research Society of India (FORSI) from December 2023.
2. Member of ESRC (Economic and Social Research Council, UK) Peer Review College, from 1 October 2015 until now.
3. Senior Fellow of Higher Education Academy, UK (from 22nd July 2016) (Recognition reference: PR110024)

Editorial Boards of Journals/Conferences

1. I have been selected as an assessor for the funding applications submitted to Innovate UK from October 2021.
2. Member, Editorial Board of the leading open access journal "*Sustainability*" from March 2020.
3. Member, Editorial Advisory Board, *Oxford Research Encyclopaedia (ORE) - Business & Management* by Oxford University Press (<https://oxfordre.com/business/page/editorial>) from 2015.
4. Review committee member, 26th EurOMA Conference, Helsinki, 15 - 19 Jun 2019, also in 2020 and 2021.
5. Advisory committee member of the International Conference on "Green Mobility Challenges (Cleaner, Greener and Smarter Journey)" ICGMC'19, 15-16, March 2019, in Madurai, India.
6. Member, Editorial Board of the International Journal of Internet of Things and its Applications, November 2016.
7. Former Member, Editorial Board of the Academic Journal of London Churchill College titled *Journal of Contemporary Development and Management Studies (JCDMS)*, April 2016.
8. Area Editor in the field of Multi-Criteria Decision Making for the journal '*OPSEARCH*', the official journal of the Operational Research Society of India (2007-12).
9. Member, Editorial Board of the International Journal of Quality and Standards.
10. Member, Editorial Board of the International Journal of Advanced Operations Management.
11. Member, Editorial Board of the International Journal of Business Performance and Supply Chain Modelling.
12. Co-Editor, Special Issue of *International Journal of Production Economics*, 2006-07 (along with Professor Bart MacCarthy).
13. Guest Editor, Special issue of International Journal of Agile Systems and Management, 2006-07.
14. Article Editor for individual articles submitted to *SageOpen*, 2014.

Referee for evaluation of proposals for Funding Bodies

1. Reviewed research performance of Professor L VAN DYK for the National Research Foundation, Research and Innovation Support and Advancement, South Africa, November 2021.
2. Reviewer, UK Future Leaders Fellowships, September 2020.
3. Reviewer for Newton Prize, May 2020.
4. Reviewer for the 2020 call for the project proposals for "Exploratory Research Projects – PCE 2020" by the Ministry of Education and Research, The Romanian National Council for Scientific Research and the Executive Agency for Higher Education, Research, Development and Innovation Funding.
5. Reviewer, Newton Fund Social Sciences Panel for reviewing proposals submitted to Newton Fund Institutional Links UK-Russia Institutional Links, UK-Gulf Institutional Links, STREAM Trilateral Institutional Links, Researcher Links Travel Grants and Workshop Grants, November 2016. Reviewed applications for UK Institutional Links July 2016 call (Russia, Brazil, Colombia, Egypt, Kenya, Mexico, Thailand, Turkey and Vietnam).
6. Reviewer, a research proposal submitted to the executive government agency of National Science Centre (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>), Poland, February 2016.
7. Reviewer, a research proposal submitted to Sultan Qaboos University (in Muscat, Oman) to be funded from His Majesty Research Trust Fund 2016 (January 2016)
8. Reviewer, project proposal (ESRC reference ES/L015773/1) titled "High Tech and Low Carbon - the role of smart cities in the green economy" submitted to ESRC under the Europe-China call for collaborative research in the Green Economy and Understanding Population Change, March 2014.
9. Reviewer, Grant Reference: ES/J010219/1, submitted to ESRC, UK in July 2011.
10. Reviewer, several research project proposals submitted to Romanian National Council for Scientific Research in July/Aug 2011.

Referee Assistance for Funding Bodies

1. Reviewer, Newton Prize 2019, organised by UNESCO.
2. Reviewer for British Council Newton Fund for 2016-2019.
3. Assessor, Commonwealth Scholarship
4. Mr. Syed Mithun Ali from Bangladesh BDCA-2011-3) for Commonwealth Scholarship Commission in the United Kingdom, February 2011.
5. Jabu Ben Masombuka (January 2014) and Jonesh Wangi (January 2014)

Journal Refereeing

1. Reviewer for book:
 - a. **Ramakrishnan Ramanathan** (2008), "Supply chain management: Issues in the New Era of Collaboration and Competition" for *Journal of Manufacturing Technology Management*, 19(1), 149-150. (Book Review)
 - b. For Pearson Education for the international edition of the book "*Operations Management*" by Krajewski, Ritzman and Malhotra.
 - c. Eric See-to and J. Christopher Westland: *Global Electronic Business*, Oxford University Press. (Chapter 1)
2. Reviewer for articles submitted for publication in many international journals including,
 - a. *Australian Journal of Agricultural Research*
 - b. *Computers & Industrial Engineering*
 - c. *Computers & Operations Research*
 - d. *Cornell Hospitality Quarterly* (*Cornell Hotel and Restaurant Administration Quarterly*)
 - e. *Ecological Economics*
 - f. *Energy – The International Journal*
 - g. *European Journal of Operational Research*

- h. *Group Decision and Negotiation*
- i. *Indian Institute of Management Bangalore (IIMB) Management Review*
- j. *INFOR – Journal of the Canadian Operational Research Society.*
- k. *Information Sciences*
- l. *International Journal of Business Performance and Supply Chain Modelling*
- m. *International journal of Engineering, Science and Technology.*
- n. *International Journal of Global Energy Issues*
- o. *International Journal of Logistics Research*
- p. *International Journal of Logistics: Research and Applications*
- q. *International Journal of Production Economics*
- r. *International Journal of Production Research*
- s. *International Journal of Productivity and Performance Management*
- t. *International Journal of Quality and Reliability Management*
- u. *International Journal of Quality and Standards*
- v. *International Journal of Retail and Distribution Management*
- w. *International Transactions on Operations Research*
- x. *Journal of Industrial and Management Optimization*
- y. *Journal of Industrial and Management Optimization (JIMO)*
- z. *Journal of Manufacturing Technology Management*
- aa. *Journal of Multi-Criteria Decision Analysis*
- bb. *Journal of Operations Management*
- cc. *Journal of the Operational Research Society (UK)*
- dd. *Mathematical and Computer Modelling*
- ee. *Managerial and Decision Economics*
- ff. *Omega - The International Journal of Management Science*
- gg. *Optimal Control: Applications and Methods*
- hh. *Production and Operations Management*
- ii. *Production Planning and Control*
- jj. *Resource and Energy Economics*
- kk. *The Energy Journal*
- ll. *The World Economy, and many more journals.*

3. Reviewer for book proposals

- a. Reviewed a report (150 pages) titled “Sustainable mountain development – Regional report of the Middle East and North African region” for Rio +20 (a UN conference), April 2012.
- b. Reviewed a new title called “Retail Analytics for Marketing” by Michael Grigsby for Kogan Page Publishers, November 2014.
- c. Reviewed a new edition textbook entitled, "Multi-Criteria Decision Analysis for Industrial and Systems Engineers: Methodology and Applications" Authored by Gerald William Evans, Professor Emeritus, University of Louisville, for CRC Press/Taylor and Francis, January 2015.
- d. Reviewed proposal for a new book titled “Understanding the Analytic Hierarchy Process (AHP)” by Konrad Kulakowski, AGH University of Science and Technology, University in Kraków, Poland for CRC Press/Taylor and Francis, April 2016.

External Examinership with 4 UK universities (A list is available upon request)

External Examiner for 28 PhD/DBA Theses (A list is available upon request)

External Examiner for 2 Masters Dissertations by Research (A list is available upon request)

Membership in Professional Bodies

- 1. Fellow, Operational Research Society of India (FORSI) from December 2023.
- 2. I have been awarded a certificate for completing the Professional Development Course for External Examiners organised by Advance HE in May 2021.
- 3. Founder member of Small Business Charter’s Regional Liaison Network (RLN) (of the Chartered Association of Business Schools, UK) from 2020.

4. Senior Fellow of Higher Education Academy, UK (from 22nd July 2016) (Recognition reference: PR110024).
5. Member, The European Operations Management Association (EurOMA).
6. Member, Academy of Management, USA (membership expired).
7. Life member, Society for Reliability Engineering, Quality and Operations Management, India .
8. Member, British Academy of Management, UK (membership expired).
9. Member, The Operational Research Society, UK (membership expired).
10. Member, Production and Operations Management Society, USA.
11. Member, The Institute for Operations Research and the Management Sciences (INFORMS), USA (membership expired).
12. Senior Life Member, Operational Research Society of India. Reference: 0738/R/06/MSL
13. Life Member, The Indian Academy for Mathematical Modelling in Engineering and Sciences (IAMMES).
14. Member, The International Society for Multiple Criteria Decision Making.
15. Member, Academic Publications Board of Sultan Qaboos University, Muscat, Oman (in 2005). The Board oversees publications of three refereed international journals published by the University, namely, *The Journal of Engineering Research* (ISSN 1726-6009), *Agricultural and Marine Sciences* (ISSN 1026-0544) and *SQU Journal for Science* (ISSN 1027-524 X).
16. Member-Secretary, Environmental Economics Research Committee (EERC) (until August 2001). It is a sub-committee of the Expert Committee on Environmental Economics, formed to implement the awareness of Environmental Economics, under the multi-million dollar project titled, "India: Environmental Management Capacity Building Technical Assistance Project", funded by the World Bank and implemented by the Ministry of Environment & Forests, Government of India.
17. Member, The International Association of Energy Economics (until August 2004).
18. Member, The Institute of Cost and Works Accountants of India, Calcutta.

Other Memberships

1. Member, 'Operations Management in Practice', in LinkedIn (<http://www.linkedin.com>). My public profile in LinkedIn can be accessed at <http://uk.linkedin.com/pub/ramakrishnan-ramanathan/12/50a/204>.

Teaching

Courses taught at the College of Business Administration, University of Sharjah, UAE

Undergraduate courses

0302160 Principles of Management (Fall 2023; Spring 2024)

0302461 Research Methods (Fall 2023; Spring 2024)

0302340 Supply Chain Planning and Operation (Fall 2023)

0302361 Operations and Supply Chain Management (Spring 2024)

0302346 Procurement and Supply Management (Spring 2024)

Modules offered at Essex Business School

Postgraduate modules

Research Methods BE955 (Module leader) (Autumn 2022 and Spring 2023)

Units Offered at University of Bedfordshire Business School, UK

The BMRI Postgraduate Research (PGR) (comprising PhD and Masters by Research students) training programme

MBA Units

BSS601-6 Managing Operations (for full time students) (Unit Leader) (Autumn 2011, Spring 2012, Autumn 2012)

SHR039-6 Operations and Project Management (for Executive MBA students) (Autumn 2011, Autumn 2012)

Master level Units

BSS017-6: Business research methods (for MBM Logistics and Supply chain management/ Engineering Business Management/ Project Management full time students) (Summer 2012; Autumn 2012, Summer 2013)

BSS025-6 Production Systems Management (for MBM Engineering Business Management full time students) (Spring 2013) (Autumn 2013) (Unit leader)

Modules Offered at Nottingham University Business School, UK

Undergraduate Modules

Introduction to Management Science for Business Decisions (N12801) (Mainly for business students)

Logistics and Supply Chain Management (N13806) (Module Convener: Dr. Andrew Grainger)

Quantitative Decision Making (N1B808) (Mainly for engineering students)

Plant Location and Design (N1C811) (Module convener: Ms. Jane Guinery)

Operations Research I (N13309) (Module convener: Dr. Luc Muyldermans)

Operations Research II (N13309)

Managing Service Operations (N12812)

Post-graduate Modules

Managing International Operations (N1DC18) (Module convener: Dr. James Tannock)

Design of Operations Facilities and Systems (N1DC13) (along with Dr. Kim Tan)

Executive MSc Modules

Process Excellence and Customer Care (N1DS01) (An MSc Module, part of the executive MSc course on Global Logistics Management, Module convener: Dr. James Tannock)

Physical Logistics (N1DR02) (An MSc Module, part of the executive MSc course on Global Logistics Management)

Process Excellence, Lean Thinking and Customer Care (N14R09) (An MSc Module, part of the executive MSc course on Global Supply Chain Management, Module convener: Dr. James Tannock)

Physical Logistics and Distribution (N14R08) (An MSc Module, part of the executive MSc course on Global Supply Chain Management)

Courses Offered at Sultan Qaboos University, Muscat, Oman (Undergraduate courses)

Logistics and Supply Chain Management

Operations Management

Operations Strategy

Service Operations Management

Business Statistics II

Introduction to Management Science

Courses Offered at the Systems Analysis Laboratory, Helsinki University of Technology, Finland (Graduate Courses)

Linear Programming

Data Envelopment Analysis

Simulation

Energy and Environmental Economics

**Courses Offered at the Indira Gandhi Institute of Development Research, Mumbai, India
(For PhD students)**

Energy and Environment

Energy Systems and Policy

Optimization Theory

Energy and Transport Economics

Some Mathematical Methods for Economic Analysis

International Research Collaborations

No.	Professor Name	Programme	Work area	My role
1.	Professor Muralidharan Kunnummal, Head, Department of Statistics Director, Population Research Center, The Maharajah Sayajirao University of Baroda, Vadodara 390002, Gujarat, India	Commonwealth Fellowship, Oct. 2011- March 2012.	Environmental sustainability issues of Indian states, Green statistics.	Hosted him at the University of Bedfordshire Business School.

Student Guidance

No. of PhD students supervised to completion so far: 20

No. of M.Phil students supervised to completion so far: 4

A list of PhD, MPhil and other programme students supervised to completion so far is available upon request.

Research Publications

Books (Published)

1. **Ramakrishnan Ramanathan**, Yanqing Duan, Joan Condell, Usha Ramanathan and Tahmina Ajmal (Eds.) (2024), *New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains*, MDPI Publishers, Basel, Switzerland. (Special Issue Reprint). ISBN 978-3-7258-0030-8 (Hbk); ISBN 978-3-7258-0029-2 (PDF); doi.org/10.3390/books978-3-7258-0029-2. **(This book has been published with my UoS affiliation.)**
2. Usha Ramanathan and **Ramakrishnan Ramanathan** (Eds.) (2020), *Sustainable supply Chain: Strategies, Issues and Models*, Springer-Verlag London. Published online July 2020. eBook ISBN 978-3-030-48876-5. Hardcover ISBN 978-3-030-48875-8. DOI 10.1007/978-3-030-48876-5. 311 pages.
3. **Ramakrishnan Ramanathan**, M. Mathirajan and A. Ravi Ravindran (Eds.) (2017), *Big Data Analytics Using Multiple Criteria Decision Making Models*, CRC Press, Taylor & Francis, Florida, USA. Published on 17 July, 2017. DOI: <https://doi.org/10.1201/9781315152653>.
4. Usha Ramanathan and **Ramakrishnan Ramanathan** (Eds.) (2014), *Supply Chain: Strategies, Issues and Models*, Springer-Verlag London, Published online September 2013. ISBN: 978-1-4471-5351-1 (Print) 978-1-4471-5352-8 (Online) DOI 10.1007/978-1-4471-5352-8.

5. **R. Ramanathan** (2004), *Indian Transport towards the new Millennium: Performance, Analysis and Policy*, Concept Publishing Company, New Delhi, India, February, 2004. (ISBN 81-8069-078-4)
6. **R. Ramanathan** (2003), *An Introduction to Data Envelopment Analysis*, Sage Publications, New Delhi, August 2003. (ISBN 0-7619-9760-1).

Research Monograph

7. Jyoti K. Parikh and **R. Ramanathan**, *Paradigms for Climate Change and Sustainable Development: Focus on India*, Research monograph prepared for the Environmental Management Capacity Building (India) Project sponsored by the World Bank, Madras School of Economics, Chennai, 2002.

Journals

In refereed International journals (published and accepted)

1. **Ramakrishnan Ramanathan**, Usha Ramanathan, Katarzyna Pelc, Imke Hermens (2024), "How Do Existing Organizational Theories Help in Understanding the Responses of Food Companies for Reducing Food Waste?", *Sustainability*, 16(4), 1534. (in the Special Issue: Scientific Advancements for an Innovative Agri-Food Supply Chain towards the 2030 Sustainable Development Goals III). <https://doi.org/10.3390/su16041534>. **(This article has been published with my UoS affiliation.)**
2. Ruiqian Li and **Ramakrishnan Ramanathan** (2024), "The interactive effect of environmental penalties and environmental subsidies on corporate environmental innovation: Is more better or worse?", *Technology Forecasting and Social Change*, **200**, March 2024, 123193 (article ahead of print, accepted on 23 December 2023). **(This article has been published with my UoS affiliation.)**
3. Lohithaksha M Maiyar, **Ramakrishnan Ramanathan**, Indira Roy, Usha Ramanathan (2023), "A decision support model for cost-effective choice of temperature-controlled transport of fresh food", *Sustainability*, 15, 6821 (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.") (Note: Abridged version of this paper has been published in Scholarly Community Encyclopaedia. Full details are: Lohithaksha M Maiyar, **Ramakrishnan Ramanathan**, Indira Roy, Usha Ramanathan (2023), "Cost-Effective Choice of Temperature-Controlled Transport of Fresh Food", *Entry ID 52687*, *Scholarly Community Encyclopaedia*, December 2023. Link: <https://encyclopedia.pub/entry/52687>).
4. Sahar Ahmadzadeh, Tahmina Ajmal, **Ramakrishnan Ramanathan** and Yanqing Duan (2023), "A Comprehensive Review on Food Waste Reduction Based on IoT and Big Data Technologies", *Sustainability*, **15**, 3482. (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.")
5. James Gillespie, Tamiris Pacheco da Costa, Xavier Cama Moncunill, Trevor Cadden, Joan Condell, Tom Cowderoy, Elaine Ramsey, Fionnuala Murphy, Marco Kull, Robert Gallagher and **Ramakrishnan Ramanathan** (2023), "Real Time Anomaly Detection in Cold Chain Transportation using IoT Technology", *Sustainability*, **15**(3), 2255. (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.")
6. **Ramakrishnan Ramanathan**, Yanqing Duan, Tahmina Ajmal, Katarzyna Pelc, James Gillespie, Sahar Ahmadzadeh, Joan Condell, Imke Hermens, Usha Ramanathan (2023), "Motivations and challenges for food companies in using IoT sensors for reducing food waste: Some insights and a road-map for the future", *Sustainability*, 15(2), 1665. (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.")
7. **Ramakrishnan Ramanathan**, Yanqing Duan, Joaquim Valverde, Samuel Van Ransbeeck, Tahmina Ajmal, Silma Valverde (2023), "Using IoT Sensor Technologies to Reduce Waste and Improve Sustainability in Artisanal Fish Farming in Southern Brazil", *Sustainability*, **15**(3), 2078. (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.")
8. Mohammad Ali Al-Tamimi, John De-Clerk Azure and **Ramakrishnan Ramanathan** (2023), "Corporate Reporting on Food Waste by UK Seafood Companies: Literature review and an assessment of current practices", *Sustainability*, 15(2), 1213 (Special issue on "New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.")
9. Tamiris Pacheco da Costa, James Gillespie, Katarzyna Pelc, Natalie Shenker, Gillian Weaver, **Ramakrishnan Ramanathan** and Fionnuala Murphy (2023), "An Organisational-Life Cycle

- Assessment (O-LCA) approach for Internet of Things (IoT) technologies implementation in a human milk bank”, *Sustainability*, 15(2), 1137. (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
10. Tamiris Pacheco da Costa, James Gillespie, Katarzyna Pelc, Abi Adefisan, Michael Adefisan, **Ramakrishnan Ramanathan** and Fionnuala Murphy (2023), “Life Cycle Assessment tool for food supply chain environmental evaluation”, *Sustainability*, 15(1), 718. (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
 11. Tamiris Pacheco Da Costa, James Gillespie, Xavier Cama-Moncunill, Shane Ward, Joan Condell, **Ramakrishnan Ramanathan**, Fionnuala Murphy (2023), “A systematic review of real-time monitoring technologies and its potential application to reduce food loss and waste: key elements of food supply chains and IoT technologies,” *Sustainability*, 15(1), 614 (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
 12. Usha Ramanathan, Katarzyna Pelc, Tamiris Pacheco da Costa, **Ramakrishnan Ramanathan**, Natalie Shenker (2023), “Role of IoT sensor technology in social wellbeing: a case study of human milk banking”, *Sustainability*, 15(1), 243. (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
 13. Omar Hussein Dib, Ali Assaf, Alexia Pean, Marie-Jose Durand, Sulivan Jouanneau, **Ramakrishnan Ramanathan**, Gerald Thouand (2023), “Raman Spectroscopy: Toward a Portable Food Quality-Warning System”, *Sustainability*, 15, 188 (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
 14. Usha Ramanathan, **Ramakrishnan Ramanathan**, Abiodun Adefisan, Tamiris Dacosta, Xavier Cama, Gautam Samriya (2022), “Adapting digital technologies to reduce food waste and improve operational efficiency of a frozen food company –The case of Yumchop Foods in the UK”, *Sustainability*, 14, 16614 (Special issue on “New Multidisciplinary Approaches for Reducing Food Waste in Agribusiness Supply Chains.”)
 15. Ruiqian Li, **Ramakrishnan Ramanathan** and Guanghua Xu (2023), “The impact of penalties for environmental violations on corporate environmental responsibility”, *Sustainable Development*, 31 (3), 1343–1363.
 16. Ruiqian Li and **Ramakrishnan Ramanathan** (2022), “The impact of environmental investments on green innovation: An integration of factors that increase or decrease uncertainty”, *Business Strategy and the Environment*, 31(7), 3388-3405.
 17. Usha Ramanathan, Olu Aluko and Ramakrishnan **Ramanathan** (2021), “Supply chain resilience and business responses to disruptions of the Covid-19 pandemic”, *Benchmarking: An International Journal*, 29(7), 2275-2290. <https://doi.org/10.1108/BIJ-01-2021-0023>
 18. M. Mathirajan, P. Suba and **Ramakrishnan Ramanathan** (2021), “Location of Depots and Allocation of Buses to Depots in Urban Road Transport Organizations: A Mathematical Model and Greedy Heuristic Algorithm”, *International Journal of Operational Research*, 40(4), 411-436.
 19. Ruiqian Li and **Ramakrishnan Ramanathan** (2020), “Can environmental investments benefit environmental performance? The moderating roles of institutional environment and foreign direct investment”, *Business Strategy and the Environment*, 29(8), 3385-3398.
 20. Muyao Li, Jinsong Zhang, **Ramakrishnan Ramanathan**, Ruiqian Li (2020), “Opening the black box: The impacts of environmental regulations on technological innovation”, *International Journal of Environmental Research and Public Health*, 17(12), 4365 (18 pages).
 21. M Mathirajan, R Devadas and **Ramakrishnan Ramanathan** (2020), “Transport Analytics in action: A Cloud-based Decision Support System for efficient City Bus Transportation”, *Journal of Information and Optimization Sciences*, 42(2), 371-416, DOI: [10.1080/02522667.2019.1688948](https://doi.org/10.1080/02522667.2019.1688948).
 22. Ruiqian Li and **Ramakrishnan Ramanathan** (2018), “Exploring the relationships between different types of environmental regulations and environmental performance: Evidence from China”, *Journal of Cleaner Production*, 196, 1329-1340.
 23. Ruiqian Li and **Ramakrishnan Ramanathan** (2018), “Impacts of Industrial Heterogeneity and Technical Innovation on the Relationship between Environmental Performance and Financial

- Performance”, *Sustainability*, 10(5), 1653 (online journal with open access, 25 pages); doi:10.3390/su10051653.
24. Qile He, David Gallear, Abby Ghobadian, **Ramakrishnan Ramanathan** (2019), “Managing Knowledge in Supply Chains: A Catalyst to Triple Bottom Line Sustainability”, *Production Planning and Control*, 30 (5-6), 448–463.
 25. **Ramakrishnan Ramanathan** (2017), Editorial: Can Big Data be a Panacea for Business?”, *Journal of Contemporary Development and Management Studies*, 5(1), 5-6.
 26. Wantao Yu, **Ramakrishnan Ramanathan**, Xingyu Wang and Jiehui Yang (2018), “Operations capability, productivity and business performance: The moderating effect of environmental dynamism”, *Industrial Management & Data Systems*, 118(1), 126-143.
 27. **Ramakrishnan Ramanathan**, Elly Philpott, Yanqing Duan and Guangming Cao (2017), “Adoption of business analytics and impact on performance: A qualitative study in retail”, *Production Planning and Control*, 28(11-12), 985-998.
 28. **Ramakrishnan Ramanathan**, Usha Ramanathan and Yongmei Bentley (2017), “The debate on flexibility of environmental regulations, innovation capabilities and financial performance – A novel use of DEA”, *Omega: The International Journal of Management Science*, 75, 131-138.
 29. Wantao Yu, **Ramakrishnan Ramanathan** and Prithwiraj Nath (2017), "Environmental pressures and performance: An analysis of the roles of environmental innovation strategy and marketing capability", *Technological Forecasting & Social Change*, 117, 160-169.
 30. **Ramakrishnan Ramanathan** (2016), “Energy and Environmental issues in international business”, *Journal of Contemporary Management and Development Studies*, 4(1), 44-60.
 31. **Ramakrishnan Ramanathan** and Usha Ramanathan (2016), “Proposing a new IPA and application to Cruise Tourism”, *Annals of Tourism Research*, 61, 213-267.
 32. **Ramakrishnan Ramanathan**, Qile He, Andrew Black, Abby Ghobadian and David Gallear (2017), “Environmental Regulations, Innovation and Firm Performance: A Revisit of the Porter Hypothesis”, *Journal of Cleaner Production*, 155 Part 2, 79-92.
 33. Nachiappan Subramanian and **Ramakrishnan Ramanathan** (2019), "A heuristics approach for computing the largest eigenvalue of a pairwise comparison matrix", *International Journal of Operational Research*, 34(4), 524-541.
 34. Meysam Poorkavoos, Yanqing Duan, John S Edwards and **Ramakrishnan Ramanathan** (2017), "Identifying the configurational paths to innovation in SMEs: A fuzzy-set qualitative comparative analysis", *Journal of Business Research*, 69(12), 5843–5854.
 35. **Ramakrishnan Ramanathan** (2018), "Understanding complexity: the curvilinear relationship between environmental performance and financial performance", *Journal of Business Ethics*, 149(2), 383-393.
 36. Wantao Yu and **Ramakrishnan Ramanathan** (2017), “Environmental management practices and environmental performance: The roles of operations and marketing capabilities”, *Industrial Management & Data Systems*, 116(6), 1201-1222.
 37. **Ramakrishnan Ramanathan**, Usha Ramanathan and Yubo Zhang (2016), "Linking operations, marketing and environmental capabilities and diversification to hotel performance: A data envelopment analysis approach", *International Journal of Production Economics*, 176, 111-122.
 38. Prithwiraj Nath and **Ramakrishnan Ramanathan** (2016), “Environmental management practices, environmental technology portfolio, and environmental commitment: A content analytic approach for U.K. manufacturing firms”, *International Journal of Production Economics*, 171, 427–437.
 39. **Ramakrishnan Ramanathan**, Yun Di and Usha Ramanathan (2016), “Moderating roles of customer characteristics on the link between service factors and satisfaction in a buffet restaurant”, *Benchmarking – an International Journal*, 23(2), 469-486.
 40. **Ramakrishnan Ramanathan** and Adewole Oluwatomi Akanni (2015), "The moderating effect of operations efficiency on the links between environmental performance and financial performance: The UK evidence", *Asian Journal of Innovation and Policy*, 4(1), 76-101.

41. Wantao Yu and **Ramakrishnan Ramanathan** (2015), "An empirical examination of stakeholder pressures, green operations practices and environmental performance", *International Journal of Production Research*, 53(21), 6390–6407.
42. Wantao Yu, **Ramakrishnan Ramanathan** and Prithwiraj Nath (2014), "The impacts of marketing and operations capabilities on financial performance: A resource-based perspective", *Industrial Marketing Management*, 43(1), 25–31.
43. **Ramakrishnan Ramanathan**, Usha Ramanathan and Lok Wan Lorraine Ko (2014), "Adoption of RFID technologies in UK logistics: Moderating roles of size, barcode experience and government support", *Expert Systems with Applications (Special issue 21st Century Logistics and Supply Chain Management)*, 41(1), 230-236.
44. **Ramakrishnan Ramanathan**, Boonchan Poomkaew and Prithwiraj Nath (2014), "The impact of organizational pressures on environmental performance of firms", *Business Ethics: A European Review*, 23 (2), 169–182.
45. **Ramakrishnan Ramanathan**, Yongmei Bentley and Lok Wan Lorraine Ko (2012), "Investigation of the status of RFID applications in the UK logistics sector", *Logistics & Transport Focus*, the official magazine of the Chartered Institute of Logistics and Transport (UK), 14(11), 45-49.
46. **Ramakrishnan Ramanathan**, Usha Ramanathan and Hsieh-Ling Hsiao (2012), "The impact of e-commerce in Taiwanese SMEs: marketing and operations effects", *International Journal of Production Economics*, 140(2), 934–943.
47. Wantao Yu and **Ramakrishnan Ramanathan** (2012), "Retail Service Quality, Corporate Image and Behavioural Intentions: The mediating effects of customer satisfaction," *International Review of Retail, Distribution and Consumer Research*, 22(5), 485-505.
48. Usha Ramanathan and **Ramakrishnan Ramanathan** (2013), "Investigating the impact of resource capabilities on performance: A structural equation approach for hotels using online ratings", *Journal of Services Marketing*, 27(5), 404 - 415.
49. Muralidharan Kunnummal and **Ramakrishnan Ramanathan** (2013), "Green statistics: a management perspective", *Industrial Engineering Journal*. 6 (9), 15-20.
50. Nachiappan Subramanian and **Ramakrishnan Ramanathan** (2012), "A review of applications of Analytic Hierarchy Process in operations management," *International Journal of Production Economics*, 138(2), 215-241.
51. Wantao Yu and **Ramakrishnan Ramanathan** (2012), "Managing Strategic Business Relationships in Retail Operations: Evidence from China", *Asia Pacific Journal of Marketing and Logistics*, 24(3), 372 - 393.
52. Wantao Yu and **Ramakrishnan Ramanathan** (2013), "Business Environment, Employee Competencies and Operations Strategy: An empirical study of retail firms in China", *IMA Journal of Management Mathematics (Special Issue on "Operations Management in Service Systems")*, 24, 231–252
53. Wantao Yu and **Ramakrishnan Ramanathan** (2012), "Effects of business environment on international retail operations: case study evidence from China", *International Journal of Retail & Distribution Management*, 40(3), 218-234.
54. Wantao Yu and **Ramakrishnan Ramanathan** (2012), "The Effects of Employee Competencies and IT Applications on Operations Strategy: An empirical study of retail firms in China", *Measuring Business Excellence*, 16(1), 3-20.
55. **Ramakrishnan Ramanathan** (2011), "A mathematical programming model for estimating the importance levels of performance criteria and an application in E-Commerce", *Expert Systems with Applications*, 39(2), 2067–2072.
56. **Ramakrishnan Ramanathan** (2012), "An exploratory study of marketing, physical and people related performance criteria in hotels," *International Journal of Contemporary Hospitality Management*, 24(1), 44-61.

57. **Ramakrishnan Ramanathan** (2011), "An empirical analysis on the influence of risk on relationships between handling of product returns and customer loyalty in e-commerce", *International Journal of Production Economics*, 130(2), 255-261. DOI: [10.1016/j.ijpe.2011.01.005](https://doi.org/10.1016/j.ijpe.2011.01.005), Link: <http://hdl.handle.net/10547/224534>.
58. **Ramakrishnan Ramanathan** (2011), "The Impact of Operational Criteria on Customer Satisfaction and Loyalty in E-commerce Environments: An Exploratory Study of Customer Ratings and Risk", *MIS Review: An International Journal*, 16 (2), 33-54.
59. **Ramakrishnan Ramanathan** and Harika Karpuzcu (2011), "Comparing Perceived and Expected Service using an AHP Model: An Application to Measure Service Quality of a Company engaged in Pharmaceutical Distribution", *Opsearch: Indian Journal of Operational Research*, 48(2):136–152.
60. **Ramakrishnan Ramanathan**, Andrew Black, Prithwiraj Nath and Luc Muyldermans (2010), "Impact of environmental regulations on innovation and performance in the UK industrial sector", Special Topic Forum on Using Archival and Secondary Data Sources in Supply Chain Management Research, *Management Decision* (Special issue on Daring to Care: A Basis for Responsible Management), 48(10), 1493-1513.
61. **Ramakrishnan Ramanathan** and Usha Ramanathan (2011), "A performance measurement framework combining DEA and Balanced Scorecard for UK health sector", *International journal of Operational Research*, 12(3), 257-278.
62. Wantao Yu and **Ramakrishnan Ramanathan** (2011), "Effects of Firm Characteristics on the Link between Business Environment and Operations Strategy: Evidence from China's service sector", *International Journal of Services and Operations Management*, 9(3), 330-364.
63. **Ramakrishnan Ramanathan** (2010), "E-Commerce Success Criteria: Determining which Criteria count most," *Electronic Commerce Research Journal*, 10 (2), 191-208.
64. Usha Ramanathan and **Ramakrishnan Ramanathan** (2011), "Guests' Perceptions of Factors Influencing Customer Loyalty: An Analysis for UK Hotels" *International Journal of Contemporary Hospitality Management*, 23 (1), 7-25. This paper was subsequently chosen as one of the three highly commended papers at the prestigious **Emerald Literati Network 2012 Awards for Excellence**.
65. **Ramakrishnan Ramanathan** (2010), "The Moderating Roles of Risk and Efficiency on the Relationship between Logistics Performance and Customer Loyalty in E-Commerce", *Transportation Research Part E: Logistics and Transportation Review*, 46E (6), 950-962.
66. Usha Ramanathan and **Ramakrishnan Ramanathan** (2011), "An Investigation into the Rank Reversal Properties of Multiplicative AHP", *International Journal of Operational Research*, 11(1), 54-77.
67. **Ramakrishnan Ramanathan** (2011), "An empirical analysis on the impact of risk on customer loyalty in electronic commerce", *International Journal of Services and Operations Management*, 9(2), 183-201.
68. **Ramakrishnan Ramanathan** and Usha Ramanathan (2010), "A Qualitative Perspective to Deriving Weights from Pairwise Comparison Matrices", *Omega – the International Journal of Management Science*, 38 (3-4), 228–232.
69. Prithwiraj Nath, Subramanian Nachiappan, **Ramakrishnan Ramanathan** (2010), "The Impact of Marketing Capability, Operations Capability and Diversification Strategy on Performance for Logistics Service Providers: A Resource-Based View", *Industrial Marketing Management*, 39 (2), 317–329.
70. **Ramakrishnan Ramanathan**, Geetha Subramanian and Dipak Chaudhuri (2010), "Quantitative Assessment of Stakeholder Perceptions for Tourism Development", *Tourism Economics*, 16(1), 99-116.
71. Ji Cheng Zhu, **Ramakrishnan Ramanathan** and Usha Ramanathan (2011), "Measuring Service Quality using SERVQUAL and AHP: An Application to a Chinese IT Company and Comparison", *International Journal of Services and Operations Management*, 18(4), 418-432.
72. Wantao Yu and **Ramakrishnan Ramanathan** (2009), "An assessment of operational efficiencies of firms in China's retail sector", *Journal of Retailing and Consumer Services*, 16(2), 109-122.

73. **Ramakrishnan Ramanathan** (2009), "An Application of Newsboy Problem for determining Policies for Optimal Stocking of Textbooks", *International Journal of Advanced Operations Management*, 1(1), 70–79.
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Presentations in Conferences

Invited presentations (presented)

1. **Ramakrishnan Ramanathan** (2023), "Improving Resource Efficiency of Agrifood supply chains using modern digital technologies: Findings from European case studies", Invited Lecture, 56th Annual Convention of Operational Research Society of India (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI), 18-20, December 2023, Indian Institute of Science, Bangalore, India. **(This presentation has included my UoS affiliation.)**
2. **Ramakrishnan Ramanathan** (2023), "Industry 4.0 and reducing waste in food logistics and supply chains", Invited seminar, RV College of Engineering (RVCE), Bengaluru, India, 19 June 2023.
3. **Ramakrishnan Ramanathan** (2023), "How can new innovations help reduce waste in food logistics and supply chains?", Invited keynote presentation at the IntraLogisteX 2023 Conference, NEC Birmingham, 29 March 2023
4. **Ramakrishnan Ramanathan** (2023), "Supporting access to research funding", Invited keynote panel presentation at the Annual Research Conference of the Chartered Association of Business Schools on 23 March 2023, University of Warwick.
5. **Ramakrishnan Ramanathan** (2022), "Food Waste Management in Agribusiness Supply Chains using Internet of Things sensors and Big Data Analytics", Invited presentation at the International Conference on "Biotechnological Interventions to Overcome the Challenges of Covid/Post-Covid Era" BIOCoPE 2022 (Online), 24th -25th March 2022. Organised by Amity Institute of Biotechnology, Amity University Rajasthan Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur, India.
6. **Ramakrishnan Ramanathan** (2021), "Some uses of business analytics in reducing food waste in Europe", Invited presentation at the 8th International Conference on Business Analytics and Intelligence, Organised by Indian Institute of Science, Bangalore 560012, 20th December 2021 (online).

7. **Ramakrishnan Ramanathan** (2021), "Some novel uses of DEA in measuring and supporting reduction of food waste", Invited at the 13th International Conference on Decisions and Data Envelopment Analysis, Organised by the Iranian DEA Society, 27th October 2021 (online).
8. **Ramakrishnan Ramanathan** (2021), "Improving Efficiency and Sustainability of Agribusiness Supply Chains using Internet of Things sensors and Big Data Analytics: The REAMIT Project", Invited presentation at the 8th International Conference on Signal Processing and Integrated Networks (SPIN 2021), Amity University, India, August 26, 2021 (online).
9. **Ramakrishnan Ramanathan** (2021), "Uses of DEA in measuring and reducing food waste", Invited presentation at the International Workshop on Recent Advancements in Data Envelopment Analysis and Applications, Birla Institute of Technology and Science(BITS), Pilani, India, 10th July 2021 (online).
10. **Ramakrishnan Ramanathan** and Lohithaksha M Maiyar (2021), "Internet of Things and Big Data Analytics in reducing food waste in Europe", Special invited lecture for members of the Operational Research Society of India (ORSI), June 12, 2021 (online).
11. **Ramakrishnan Ramanathan** (2021), "Some of our approaches using IoT and Big Data to fight climate change – case studies in agrifood supply chains", Keynote speech at the 2nd International Conference on Climate Change, Kuala Lumpur, Malaysia, 25-26th May 2021 (online).
12. **Ramakrishnan Ramanathan** (2021), "Using IoT and Big Data for minimising food waste in agribusiness supply chains: Some recent developments from the REAMIT project", Research seminar series at the Indian Institute of Management Tiruchirappalli, India (online, 05 February 2021).
13. **Ramakrishnan Ramanathan** (2021), "Entrepreneurial challenges in using digital technologies: Some recent developments from the REAMIT project", Distinguished Speaker at the "Technology based Entrepreneurship Development Programme" on Food Processing and Internet of Things, Amity University, Uttar Pradesh, India (online, 03 February 2021).
14. **Ramakrishnan Ramanathan** (2021), "Using IoT and Big Data for minimising food waste in agribusiness supply chains: Some recent developments from the REAMIT project", Lunchtime talk at the Internet of Food Things (IoFT) network, UK (online, 22 January 2021).
15. **Ramakrishnan Ramanathan** (2020), "Discovering potentials of Artificial Intelligence in fighting against food waste", Invited plenary lecture at the International Conference on Applications of A.I. & Computational Mathematics in Bangalore (online, 07-11 December 2020).
16. **Ramakrishnan Ramanathan** (2020), "Options for using Artificial Intelligence in agribusiness logistics", Invited plenary lecture at the 53rd Annual convention of the Operational Research Society of India (online, 17-20 December 2020).
17. **Ramakrishnan Ramanathan** (2020), "Climate Change Implications of Reducing Food Waste Using New Digital Technologies", Invited research seminar presentation at Festschrift Conference- Session 2 in honour of Prof Kirit Parikh's 85th Birthday, online, organised by Integrated Research and Action for Development (IRADe), New Delhi.
18. **Ramakrishnan Ramanathan** (2020), "Improving Operations and Sustainability of Agribusiness Supply Chains using Internet of Things sensors and Big Data Analytics", Plenary lecture delivered online at the 3rd International Industrial Engineering and Operation Research (<http://ieconferences.com/>) Conference, Istanbul, Turkey, 25 June 2020 (Presented online)
19. **Ramakrishnan Ramanathan** (2020), "Improving Resource Efficiency of Agribusiness supply chains by Minimising waste using Big Data and Internet of Things sensors (REAMIT)", Invited research seminar at Cass Business School, 05 February 2020.
20. **Ramakrishnan Ramanathan** (2018), "How can OR and Statistics be combined to support policy decisions? The case of environmental policy", Plenary lecture delivered at the International Conference on Emerging Innovations in Statistics and Operations Research, Rohtak, India, 27-30 December, 2018. (Presented)
21. **Ramakrishnan Ramanathan** (2018), "Understanding the state of the art research on the use and impact of Big Data and Analytics and an overview of potential applications of Big Data, IoT and

- blockchain in agri-supply chains”, Invited Key Note presentation at the 6th International Conference on Business Analytics and Intelligence (ICBAI), Indian Institute of Science, Bangalore, India, 20-22 December, 2018. (Presented)
22. **Ramakrishnan Ramanathan** and Yanqing Duan (2018), “Publishing in Reputed Journals in the field of Business”, Invited presentation at Harbin University of Commerce, China, 31 May 2018.
 23. **Ramakrishnan Ramanathan** (2017), “Big Data and IoT for Power and Energy Systems”, Key Note presentation at the International Conference on Power & Energy Systems “ICPES’17”, 21&22, December 2017, Velammal College of Engineering and Technology, Madurai, India.
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 25. **Ramakrishnan Ramanathan** (2017), “Big Data, IoT and sustainability in food logistics”, Key Note presentation at the International Workshop (funded by Newton Fund) on “A pathway to global sustainability - Role of local food and logistics SMEs in global sustainability”, 29 May 2017, Unidavi, Rio do Sul, Brazil.
 26. **Ramakrishnan Ramanathan** (2017), “Impact of Big Data innovation in logistics and supply chains”, Key Note presentation at the Workshop on “Data Innovations and Sustainability in Agri-Food Supply Chains” at the Business School, Henan University, Kaifeng, China, on 19 April 2017.
 27. **Ramakrishnan Ramanathan** (2017), “Big Data and the Internet of Things in Logistics”, Invited Lecture at the Business School, Henan University, Kaifeng, China, on 18 April 2017.
 28. **Ramakrishnan Ramanathan** (2017), “Big Data and IoT: The UK experience”, Key Note presentation at the Workshop on “Supporting SMEs in using Big Data” at Madurai School of Management, Madurai, India, on 04 April 2017.
 29. **Ramakrishnan Ramanathan** (2016), “Data Envelopment Analysis (DEA): Introduction, Methodological Issues and Applications”, Invited Tutorial presented at the 49th Annual International Conference of the Operational Research Society of India (ORSI), Birla Institute of Management Technology (BIMTECH), Greater Noida, New Delhi, India, December 11, 2016.
 30. **Ramakrishnan Ramanathan** (2016), “Combining Network DEA Approach in MCDM context and an application to study the Impact of Environmental Regulations on Innovation and Financial Performance”, Invited Key Note presentation at the 49th Annual International Conference of the Operational Research Society of India (ORSI), Birla Institute of Management Technology (BIMTECH), Greater Noida, New Delhi, India, December 12, 2016.
 31. **Ramakrishnan Ramanathan** (2016), “Big Data in Logistics”, Invited Key Note presentation at the 4th International Conference on Business Analytics and Intelligence (ICBAI), Indian Institute of Science, Bangalore, India, December 19, 2016.
 32. **Ramakrishnan Ramanathan** (2016), “Involving sustainability thinking in economic growth”, Chief Guest speech at the 1st International Conference on “REENVISIONING ECONOMIES: INCLUSIVE GROWTH & SUSTAINABILITY” St Xavier’s College, Jaipur, India, December 20, 2016.
 33. **Ramakrishnan Ramanathan** (2016), “Some thoughts on environmental regulations and impacts on sustainability”, Invited Key Note presentation at the 1st International Conference on “REENVISIONING ECONOMIES: INCLUSIVE GROWTH & SUSTAINABILITY” St Xavier’s College, Jaipur, India, December 20, 2016.
 34. **Ramakrishnan Ramanathan** (2016), “Some results on the impact of environmental regulations on operations innovation, performance and sustainability in UK manufacturing”, Key Note Address on 25 May 2016 at the international research workshop titled “Sustainable Development - Exploring Energy Efficiency Opportunities through Supply Chain and Operations Innovation”, 23-27 May 2016, Universidad Autónoma de Aguascalientes, Aguascalientes, Mexico (organised jointly by the University of Derby, UK, and funded by the Newton Fund, the British Council and the Consejo Nacional de Ciencia y Tecnología (CONACYT) of Mexico).
 35. **Ramakrishnan Ramanathan** (2015), “Security and Intelligence issues with Business Analytics: Findings from a qualitative study in UK Retail”, Invited presentation at the International Conference on

Computational Intelligence, Cyber Security and Computational Models, Coimbatore, India, December 17, 2015.

36. **Ramakrishnan Ramanathan** (2015), "The impact of organisational pressures on environmental performance of firms", Research Seminar, Nottingham University Business School Ningbo Campus in China, 07th October 2015.
37. **Ramakrishnan Ramanathan** (2015), "Adoption of business analytics and impact on performance: A qualitative study in retail firms", Research Methods Seminar, Nottingham University Business School Ningbo Campus in China, 30th September 2015.
38. **Ramakrishnan Ramanathan** (2015), "Role of innovation in linking environmental and financial performance: An analysis combining DEA and statistics", International Symposium in honour of Prof Ravi Ravindran, Bangalore, March 12-13, 2015.
39. **Ramakrishnan Ramanathan** (2014), "Big Data and analytics in Logistics", 2nd International Conference on Business Analytics & Intelligence, Bangalore, 18-20 December 2014.
40. **Ramakrishnan Ramanathan**, Elly Philpott, Yanqing Duan and Guangming Cao (2014), "Big Data Tools and Techniques in the UK Retail Sector", Invited abstract in session Business Analytics Optimization and Big Data, stream Business Analytics Optimization and Big Data, at the IFORS Triennial 2014 Conference, July 13-18, 2014, Barcelona, Spain (presented).
41. **Ramakrishnan Ramanathan** (2013), "Big Data: What it is and how is it helpful to Indian students?", **Invited** research lecture presented at Thiagarajar College of Engineering, Madurai, India, 25 July 2013.
42. **Ramakrishnan Ramanathan** (2013), "Big Data and its relevance to Engineering students", **Invited** research lecture presented at Vickram College of Engineering, Madurai, India, 27 July 2013.
43. **Ramakrishnan Ramanathan** (2013), "AHP and Reverse AHP: How can we use for judgemental forecasting?", **Invited** research seminar presented Cardiff University Business School, Cardiff, 26 April 2013.
44. **Ramakrishnan Ramanathan** (2013), "Analytic Hierarchy Process: Introduction, overview and application to measure service quality", **Invited** research seminar presented at the Indian Institute of Science, Bangalore, India, 07 Feb. 2013.
45. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elly Philpott (2013), " Diffusion and impact of business analytics: Can India learn from UK experience?" **End Note Address** delivered at the one-day conference on Big Data Innovation : Driving Business Success, organised by UNICOM, Bangalore, India, 08 Feb. 2013.
46. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elly Philpott (2013), "Some insights on the diffusion and impact of business analytics in UK retail and Opportunities for India", **Invited** research seminar presented at the Indian Institute of Management, Bangalore, India, 11 Feb. 2013.
47. **Ramakrishnan Ramanathan** (2013), "Analytic Hierarchy Process", Two **Invited** research seminars presented at the Madurai School of Management, Madurai, India, 12 Feb. 2013.
48. **Ramakrishnan Ramanathan** (2013), "Are UK retailers benefiting from business analytics? Results of a qualitative study", **Invited** research seminar presented at the University of East Anglia, London, 31 Jan. 2013.
49. **Ramakrishnan Ramanathan** (2012), "Innovation: A comparison of global and Indian scenario", **Key Note Address** at the International Conference on Innovation and Entrepreneurship – ICIE2012, Pollachi, Tamil Nadu, India, 10 May 2012.
50. **Ramakrishnan Ramanathan** (2012), "Three theoretical perspectives to understand the role of innovation in firms: Examples of e-commerce, RFID and business analytics", **Invited lecture** at the International Conference on Innovation and Entrepreneurship – ICIE2012, Pollachi, Tamil Nadu, India, 11 May 2012.

51. **Ramakrishnan Ramanathan** (2011), " The role of electronic technologies in improving quality of a B2B physical distribution service ", **Key Note Address** at the International Conference on Quality & Reliability Engineering, 20 - 22 December 2011, Bangalore (presented).
52. **Ramakrishnan Ramanathan** (2010), "Multi-criteria OR Models for Urban and Rural Development", **Key Note Address** at the 43rd annual convention of Operational Research Society of India (ORSI) and International conference on Operational Research for Urban and Rural Development (ORURD), Madurai, India, 15-17 December 2010 (presented).
53. **Ramakrishnan Ramanathan** and Usha Ramanathan (2010), "An Introduction to the Analytic Hierarchy Process (AHP)", Pre-conference Tutorial and One day Workshop on Multi Criteria Decision Making (**invited tutorial**), Madurai, India, 14 December 2010 (presented).
54. **Ramakrishnan Ramanathan** (2010), "Analytic Hierarchy Process (AHP) – Issues and Applications", Pre-conference Tutorial and One day Workshop on Multi Criteria Decision Making (**invited tutorial**), Madurai, India, 14 December 2010 (presented).
55. **Ramakrishnan Ramanathan** (2010), "Data Envelopment Analysis (DEA): Introduction, Issues and Applications", Pre-conference Tutorial and One day Workshop on Multi Criteria Decision Making (**invited tutorial**), Madurai, India, 14 December 2010 (presented).
56. **Ramakrishnan Ramanathan** and **Andrew Black** (2010), "The impact of flexibility of environmental regulations on manufacturing performance - UK", Conference in honour of 75th birthday of Dr. Kirit Parikh, the Founder Director of IGIDR, Mumbai, October 26-27, 2010 (presented in absence by Mr. Nitin Harak, a PhD student at IGIDR).
57. **Ramakrishnan Ramanathan** (2009), "DEA and An Application to Environmental Policy in the UK", **Invited talk** at the 4th International Conference on Quality, Reliability and Infocom Technology (Trends and Future Directions), New Delhi, India, 18 – 20 December 2009 (presented).
58. **Ramakrishnan Ramanathan** (2009), "Production and Operations Management", **Invited Lecture** delivered at Hallmark Business School, Tiruchirappalli, India on 28 May 2009 (presented).
59. **Ramakrishnan Ramanathan** (2009), "Applications of Data Envelopment Analysis in Operations Management and a new application combined with Balanced Scorecard", **Invited key note address** at the International Conference on OR Applications in Engineering and Management, 27-29, May 2009, Anna University Tiruchirappalli (AU-T), India (invited).
60. **Ramakrishnan Ramanathan** (2009), "Some reflections on OR Applications in Engineering and Management", **Key note address** delivered as the Chief Guest of the Valedictory Function at the International Conference on OR Applications in Engineering and Management, 27-29, May 2009, Anna University Tiruchirappalli (AU-T), India (invited).
61. **Ramakrishnan Ramanathan** (2008), "An introduction to Data Envelopment Analysis and its applications in Operations Management", **Invited Lecture** delivered at Thiagarajar College of Engineering, Madurai, India on 03 July 2008 (presented).
62. **Ramakrishnan Ramanathan** (2008), "An introduction to Data Envelopment Analysis and its applications in Operations Management", **Lecture** delivered at Bharathidasan Institute of Management, Tiruchirappalli, India on 07 July 2008 (presented).
63. **Ramakrishnan Ramanathan** (2007), "An introduction to the Analytic Hierarchy Process", **Invited Tutorial** delivered at the Workshop on Optimization and its Applications, New Delhi, Nov 29 – Dec 03, 2007 (presented).
64. **Ramakrishnan Ramanathan** (2007), "The Analytic Hierarchy Process: Issues and Applications", **Invited Tutorial** delivered at the Workshop on Optimization and its Applications, New Delhi, Nov 29 – Dec 03, 2007 (presented).
65. **Ramakrishnan Ramanathan** (2007), "Applications of Data Envelopment Analysis in Operations Management", **Invited** talk delivered at the 40th Convention of the Operational Research Society of India, New Delhi, 04-06 December, 2007 (presented).
66. **Ramakrishnan Ramanathan** (2005), "Data Envelopment Analysis and its Applications in Operations Management", **Invited** talk delivered at the School of Management and Marketing, University of Wollongong, Australia on 14 July 2005.

67. **R. Ramanathan** (2001), "A Data Envelopment Analysis approach for comparing energy efficiencies of different transport modes and application to Indian energy policy", **Invited** paper presented at the Annual meeting of the Finnish Operational Research Society, held at the Helsinki School of Economics and Business Administration, Helsinki, Finland, on May 29, 2001.
68. **R. Ramanathan** (2000), *Some experiences on assessing the performance of schools in the Netherlands*, at the Helsinki School of Economics and Business Administration, Helsinki, presented on 08 December 2000.
69. **R. Ramanathan** (2000), *An introduction to Data Envelopment Analysis*, **Invited** lecture delivered to research students and Masters students at the Department of Humanities and Social Sciences, Indian Institute of Technology, Chennai, India on 10 February 2000.
70. **R. Ramanathan** (1999), *An Analysis of the trends in Performance and Energy Consumption in Indian Transport Sector and their Global Warming Implications*, **Invited** lecture delivered at the Research Institute for Applied Knowledge Processing (FAW), Ulm, Germany on 17 August 1999.
71. R. C. van den Honert and **R. Ramanathan**, "Group preference aggregation in the multiplicative AHP." **Invited** paper presented at the *Fourteenth Triennial Conference of the International Federation of Operational Research Societies (IFORS 96)*, held at Vancouver, British Columbia, during July 8-12, 1996.

International conferences (accepted and presented)

72. Jean Charles Vialatte, Jaemes Gillespie and **Ramakrishnan Ramanathan** (2024), "A Temperature Monitoring System with Neural Enhancement in Food Supply Chain Transportation", International Conference on Business Analytics in Practice 2024, JAN. 8-11, 2024, Sharjah, UAE. **(This presentation has included my UoS affiliation.)**
73. **Ramakrishnan Ramanathan** and Usha Ramanathan (2024), "A food ranking model for supporting food waste reduction", International Conference on Business Analytics in Practice 2024, JAN. 8-11, 2024, Sharjah, UAE. **(This presentation has included my UoS affiliation.)**
74. **Ramakrishnan Ramanathan** and Usha Ramanathan (2024), *How Do Existing Organizational Theories Help in Understanding the Responses of Food Companies for Reducing Food Waste?*, 14th Annual International Conference on Industrial Engineering and Operations Management, Dubai, United Arab Emirates (UAE), February 12-14, 2024 (abstract accepted) **(This article has included my UoS affiliation.)**
75. AS Balakrishnan, Usha Ramanathan and **Ramakrishnan Ramanathan**, (2024), *An Exploratory Investigation on the Circular Economy Framework for the Electric Vehicle Battery Industry*, 14th Annual International Conference on Industrial Engineering and Operations Management, Dubai, United Arab Emirates (UAE), February 12-14, 2024 (abstract accepted) **(This article has included my UoS affiliation.)**
76. Shantha Lakshmi Belavadi Nagaraja Swamy, **Ramakrishnan Ramanathan**, Marc Jones, Yanqing Duan and Tahmina Ajmal (2023), "Fruit Scouting Robot Commercialisation and Integration into Supply-Chain", 56th Annual Convention of Operational Research Society of India (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI), 18-20, December 2023, Indian Institute of Science, Bangalore, India. (Presented) **(This article has included my UoS affiliation.)**
77. Shantha Lakshmi Belavadi Nagaraja Swamy, **Ramakrishnan Ramanathan**, Marc Jones, Yanqing Duan and Tahmina Ajmal (2023), "How can new developments in robotics help improve farming and supply chain efficiency? An investigation on the potential benefits of scouting robots in fruit farms", 23rd Annual Conference of the European Operations Management Association, 3 – 5 July 2023, Leuven, Belgium.)
78. **Ramakrishnan Ramanathan**, Yanqing Duan, Tahmina Ajmal and Katarzyna Pelc (2023), "Demonstrating food waste reduction using IoT-Big Data technology in the food sector and learnings for use in other sectors", 10th International EurOMA Sustainable Operations and Supply Chains Forum, 20 – 23 March 2023, Online organized in Hamburg, Germany. (Abstract accepted)
79. İlhan DOĞAN, Ezgi Ünal, Yanqing Duan, **Ramakrishnan Ramanathan** and Bernd Kleinheyer (2023), "Job posting analysis to discover the occupational profiles of digital transformation managers", 3.

INTERNATIONAL LIBERTY INTERDISCIPLINARY CONFERENCE (Hybrid Conference), January 13-15, 2023, Miami (presented).

80. **Ramakrishnan Ramanathan**, Yanqing Duan, Tahmina Ajmal and Katarzyna Pelc, Demonstrating food waste reduction using IoT-Big Data technology in the food sector and learnings for use in other sectors, 10th International EurOMA Sustainable Operations and Supply Chains Forum, 20 – 23 March 2023, Online organized in Hamburg, Germany. (accepted)
81. Lakshmi Swamy, **Ramakrishnan Ramanathan**, Yanqing Duan (2023), “Media Characteristics’ Influence on Spiritual Goal Strivings - Extending Media Richness Theory”, ICITS’23 - The 6th International Conference on Information Technology & Systems, Cusco, Peru, 8 - 10 February 2023. (Abstract accepted)
82. **Ramakrishnan Ramanathan**, Yanqing Duan, İlhan DOĞAN, Bernd Kleinheyer and Ezgi Ünal (2022), “Developing a curriculum for Green Business Transformation using Modern Digital Technologies”, POMS India International Conference 2022, Kozhikode, India, December 21 – 23, 2022. (presented)
83. Yanqing Duan, **Ramakrishnan Ramanathan**, Katarzyna Pelc, Usha Ramanathan and Lakshmi Swamy, Examining the Influence of Ability, Trust, Opportunity and Motivation on IoT Sensors Adoption for preventing food waste, 15th International Conference on ICT, Society and Human Beings 2022 (ICT 2022), Lisbon, Portugal, during 19 - 21 July 2022. (Presented)
84. Joseph Arhavbarien, **Ramakrishnan Ramanathan** and Yanqing Duan (2022), An Examination of Antecedents of Green Value Internalisation for Firm-Level Supply Chain Collaboration, 36th Annual Conference of the British Academy of Management (BAM 2022), 31st August - 2nd September, Manchester, UK. (Paper presented)
85. Joseph Arhavbarien, **Ramakrishnan Ramanathan** and Yanqing Duan (2022), “Green Supply Chain Management: An investigation of firm level antecedents of Green Value Internalisation”, 29th Annual Conference of the European Operations Management Association (EurOMA), 01 - 06 July 2022, Berlin. (Full paper presented)
86. Joseph Arhavbarien, **Ramakrishnan Ramanathan** and Yanqing Duan (2022), “An Investigation of firm-level antecedents of green value internalisation for Upstream-Downstream supply chain interactions”, 2022 Online POMS Annual Conference, April 21 to April 25, 2022. (presented)
87. Lohithaksha Maiyar, **Ramakrishnan Ramanathan** and Lakshmi Swamy (2021), “A Theoretical Sustainability Model on Using IoT Sensors and Cloud Systems for Reducing Food Waste and Emissions in the fresh food sector”, Logistics Research Network Conference 2021, 8 - 10 September 2021, Cardiff Business School (presented).
88. Lohithaksha Maiyar and **Ramakrishnan Ramanathan** (2021), “An optimisation model for cost effective integration of transportation network design with quality control to reduce fresh food wastage”, 28th EurOMA Conference, 4 - 7 July 2021, Estrel Hotel, Berlin. (presented).
89. **Ramakrishnan Ramanathan**, Daniel Kelly, Bryan Gardiner, Gerard Corkery, Tahmina Ajmal, William Duffy and Joan Condell (2019), “A review of sensors for reducing waste in food logistics and supply chains”, 27th EurOMA Conference, 26 June - 01 July 2020, Warwick, UK. (presented online at the publication workshop of the conference).
90. **Ramakrishnan Ramanathan**, Yanqing Duan, Joaquim Manoel Monteiro Valverde, Tahmina Ajmal, Feng Dong, Samuel Van Ransbeeck and Silma Battezzati Valverde (2019), “IoT sensors in Aquaculture – Barriers and Facilitators for sustainability in Brazilian Context”, International Conference on Industrial Engineering and Operations Management, Toronto, Canada, October 23-25, 2019 (presented).
91. Yanqing Duan, Guangming Cao and **Ramakrishnan Ramanathan**, “A Systematic Literature Review on the Applications of Big Data Analytics - Identifying Influential Factors and Impact”, The 2019 annual Americas Conference on Information Systems (AMCIS), August 14 – 18, Cancun, Mexico (presented).
92. Jun Ma, Usha Ramanathan and **Ramakrishnan Ramanathan**, “A framework for Supply Chain Collaborative Relationship and Risk Management”, 10th European Decision Sciences Conference, JUNE 2- 5, 2019, Nottingham, UK (presented)

93. Wantao Yu, **Ramakrishnan Ramanathan**, Sonal Choudhary and Luciano Batista, "Digitising Agricultural Value Chain in China", 10th European Decision Sciences Conference, JUNE 2- 5, 2019, Nottingham, UK (presented)
94. Shantanu Banerjee, Usha Ramanathan and **Ramakrishnan Ramanathan** (2019), "What is the future of IT offshoring operations?", 26th Annual Conference of the European Operations Management Association (EurOMA), 15 - 19 Jun 2019, Helsinki, Finland. (presented).
95. Shantha Lakshmi Belavadi N Swamy, **Ramakrishnan Ramanathan** and Yanqing Duan (2019), "Influence of modern digital media on personal strivings, assisting spiritual stakeholders' operations", POMS 29th Annual Conference, Houston, May 4-7, 2019. (presented).
96. Luciano Batista, **Ramakrishnan Ramanathan** and Wantao Yu (2019), "Augmented visibility of food supply chains and the REAMIT project", POMS 29th Annual Conference, Houston, May 4-7, 2019. (presented).
97. Shantanu Banerjee, Usha Ramanathan and **Ramakrishnan Ramanathan** (2019), "Information Technology Offshoring Operations", POMS 29th Annual Conference, Houston, May 4-7, 2019. (presented).
98. Wantao Yu and **Ram Ramanathan** (2018), Progress on the STFC funded research project "Data-driven agri-food supply chains for sustainability and productivity: A case in Henan Province, China", STFC Food Network+ Annual Meeting, University of Sheffield, 28–29 June 2018.
99. **Ram Ramanathan** (2018), "Literature survey on metrics that support stakeholders' decision-making processes concerning fast re-routing of food distribution", Workshop on Project APROV – Augmented Procurement Visibility, University of Manchester, 05 July 2018.
100. Yongmei Bentley, Guangming Cao, **Ramakrishnan Ramanathan**, Roger Bentley (2018), "How correct were they? – A comparison of logistics/supply chain practitioner and educator views of near-term oil price with the actual oil price", 23rd Annual Conference of The Chartered Institute of Logistics and Transport, Logistics Research Network (LRN), Plymouth University, 5 - 7 September 2018.
101. Yanqing Duan, **Ramakrishnan Ramanathan**, Guangming Cao and Nasrallah Khilji (2018), "Understanding current research on the use and impact of Big Data Analytics: A systematic literature review", The International Conference on Big Data Analytics, Data Mining and Computational Intelligence 2018 (BigDaCI 2018), Madrid, Spain, 18 - 20 July 2018 (presented).
102. **Ramakrishnan Ramanathan**, Elly Philpott, Yanqing Duan and Guangming Cao (2018), "Antecedents and outcomes of Big Data utilisation in Logistics: A value adding process framework", POMS 2018 - Twenty Ninth Annual Conference, Houston, TX, U.S.A, May 4 – May 7, 2018 (Presented).
103. Yongmei Bentley, Guangming Cao, **Ramakrishnan Ramanathan** and Roger Bentley (2017), "Impact of Recent and Anticipated Changes in Oil Price on Global Logistics and Supply Chain Activity – Further Findings on Practitioner and Educator Opinions", 22nd Annual Conference of The Chartered Institute of Logistics and Transport, Logistics Research Network (LRN), 6 – 8 September 2017, Southampton Solent University (presented).
104. **Ramakrishnan Ramanathan** and Ruiqian Li (2017), "Exploring the Environmental Regulations-Innovation-Performance nexus using MCDM view of Network DEA", the Workshop on "Data Innovations and Sustainability in Agri-Food Supply Chains" at the Business School, Henan University, Kaifeng, China, on 19 April 2017. **This paper has been selected as one of the three best papers at the workshop.**
105. Yongmei Bentley, Guangming Cao, **Ramakrishnan Ramanathan** and Roger Bentley (2017), "Investigating the impact of change in oil price on global logistics and supply chain activities", 24th International Annual EurOMA Conference, Edinburgh, Scotland, 1 - 5 July 2017 (presented).
106. **Ramakrishnan Ramanathan** and Ruiqian Li (2017), "Exploring the Environmental Regulations-Innovation-Performance nexus using MCDM view of Network DEA", Twenty Eighth Annual Conference of the Production and Operations Management Society (POMS 2017), Seattle, Washington, U.S.A., May 5 – 8, 2017 (presented).
107. Lakshmi Belavadi, **Ramakrishnan Ramanathan** and Yanqing Duan (2016), "Examining the influence of Big Data characteristics on Spiritual goal strivings and Well Being", 4th International Conference on

- Business Analytics and Intelligence (ICBAI), Indian Institute of Science, Bangalore, India, December 19, 2016 (presented).
108. Prasad Joshi, **Ramakrishnan Ramanathan** and Elly Philpott (2016), "An investigation on Project Managers' view of Project Culture", The 23rd Annual Conference of the European Operations Management Association (EurOMA), Norwegian University of Science and Technology (NTNU), 17-22 June 2016 (presented).
 109. **Ramakrishnan Ramanathan** (2016), "Flexibility of environmental regulations and the link between performance and innovation", The 23rd Annual Conference of the European Operations Management Association (EurOMA), Norwegian University of Science and Technology (NTNU), 17-22 June 2016 (presented).
 110. **Ramakrishnan Ramanathan**, Qile He, Andrew Black, Abby Ghobadian and David Gallear (2015), "Environmental Regulations, Innovation and Performance: Case Studies and Propositions", British Academy of Management (BAM) 2015 Conference, University of Portsmouth, 8-10 September, 2015 (presented).
 111. Shantanu Banerjee, **Ramakrishnan Ramanathan** and Usha Ramanathan (2015), "Development and validation of a conceptual framework for success in offshore IT outsourcing relationship management", British Academy of Management (BAM) 2015 Conference, University of Portsmouth, 8-10 September, 2015 (presented).
 112. Nasserkhan Jamalkhan, **Ramakrishnan Ramanathan** and Yonemei Bentley (2015), "The role of knowledge management on environmental capabilities and a firm's performance", 2nd EurOMA Sustainable Operations and SC Forum, Barcelona, Spain, March 23rd -24th, 2015 (presented).
 113. **Ramanathan, R.**, Y. Duan, E. Philpott and U. Ramanathan (2015), Big Data in Logistics: The UK Experience, POMS 26th Annual Conference, Washington DC, USA, May 8 -11, 2015 (presented)
 114. **Ramakrishnan Ramanathan**, Yanqing Duan, Elly Philpott and Usha Ramanathan (2014), "Big Data and analytics in Logistics: Some Preliminary Findings with UK firms", Abstract for presentation at POMS International Conference 2014, July 21-23, Singapore (presented).
 115. Qile He, Abby Ghobadian, David Gallear and **Ram Ramanathan** (2014), "Will knowledge management benefit supply chain sustainability? Comparison of perceptions of academics and practitioners", Extended abstract of a paper submitted for presentation at the 21st International Annual EurOMA Conference, June 20-25, 2014, Palermo, Italy (presented).
 116. Meysam Poorkavoos, Yanqing Duan, **Ramakrishnan Ramanathan** and John S. Edwards (2014), Inter-firm knowledge transfer and innovation in SMEs: A fuzzy-set qualitative comparative analysis, Paper submitted for presentation at the International Conference on Information Resources Management (Conf-IRM) 2014, International Conference on Information Resource Management, Ho Chi Minh City, Vietnam, May 21 - 23 2014 (presented).
 117. Shantanu Banerjee and **Ramakrishnan Ramanathan** (2014), "Managing Risk in IT Outsourcing: Development and Validation of an integrated trust based relationship model", Abstract of a paper submitted for presentation at MOPAN 2014 – the 21st Conference on Multi-Organisational Partnerships, Alliances and Networks, 14-16 July 2014, Oxford Brookes University, Oxford, UK (presented).
 118. **Ramakrishnan Ramanathan** (2014), "Innovation, flexibility of environmental regulations and firm performance", Abstract of a paper submitted for presentation at POM 2014 – Twenty Fifth Annual Conference of the Production and Operations Management Society, May 9 – May 12, 2014, Atlanta, USA (presented).
 119. **Ramakrishnan Ramanathan**, Yongmei Bentley, Adam Higgin, Integrating carbon footprint in scope 3 supply chain activities – a case study of the University of Bedfordshire, Logistics Research Network (LRN) Conference, 4th to 6th September 2013, Aston University, Birmingham, UK (presented).
 120. Adam Higgin, Yongmei Bentley and **Ramakrishnan Ramanathan**, Initiatives for reducing carbon footprint of operations at the University of Bedfordshire, University of Bedfordshire Conference 2013, 8-9 July 2013, Luton, UK (presented).

121. Qile He and **Ramakrishnan Ramanathan** (2013), "Exploring the role of interfirm knowledge transfer in developing sustainable supply chains", 20th International Annual EurOMA Conference, 9-12 June 2013, Dublin, Ireland.
122. **Ramakrishnan Ramanathan**, Lorraine Ko and Usha Ramanathan (2013), "Diffusion of RFID in the UK logistics sector using technology acceptance perspective", 20th International Annual EurOMA Conference, 9-12 June 2013, Dublin, Ireland. (presented).
123. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elaine Philpott (2013), "An empirical analysis of diffusion and impact of business analytics in the UK retail sector", Abstract for presentation at POM 2013 - Twenty Fourth Annual Conference of Production and Operations Management Society, Denver, Colorado, U.S.A., May 3 – May 6, 2013 (presented).
124. Jimmy Castro Boluarte, Yongmei Bentley and **Ramakrishnan Ramanathan** (2013), "Reducing CO₂ Emissions in Logistics Activities: Drivers and Barriers", 2013 International Conference on Information, Business and Education Technology (ICIBET 2013), March 14-15, 2013, Beijing, China (presented).
125. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elaine Philpott (2012), "Diffusion and impact of business analytics in UK retail: Theoretical underpinnings and a qualitative study", EurOMA Service Operations Management Forum, Cambridge on 19 – 20 September 2012 (presented).
126. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elaine Philpott (2012), "Diffusion and impact of business analytics: A conceptual framework", ICDADM 2012 : International Conference on Data Analysis and Decision Making, Berlin, Germany, September 19-20, 2012 (presented).
127. Elaine Philpott, **Ramakrishnan Ramanathan**, Yanqing Duan and Guangming Cao (2012), "An exploratory study of the diffusion and impact of business analytics", ICDADM 2012 : International Conference on Data Analysis and Decision Making, Berlin, Germany, September 19-20, 2012 (presented).
128. Jimmy Castro Boluarte, Yongmei Bentley and **Ramakrishnan Ramanathan**, "Impacts of CO₂ Emission Reduction Initiatives in UK Logistics Activities on the Role of Logistics Management", The 17th Annual Logistics Research Network (LRN) Conference, Cranfield, 5-7 September 2012 (presented).
129. **Ramakrishnan Ramanathan**, Yongmei Bentley and Lorraine Ko, "A review of the status of RFID applications in the UK logistics sector", The 17th Annual Logistics Research Network (LRN) Conference, Cranfield, 5-7 September 2012 (presented).
130. **Ramakrishnan Ramanathan**, Tugce Karpuzcu and Usha Ramanathan (2012), "Understanding the impact of e-services on the link between service factors and customer satisfaction: an empirical study with the diffusion of innovations perspective", 19th International EurOMA Annual Conference, 1-5 July 2012, Amsterdam (presented).
131. Asma Al-Zaidi and **Ramakrishnan Ramanathan** (2011), " Exploring the Interrelationships among Operations Management Practices, Customer Perception of Service Quality, and Performance of Hotels in the Sultanate of Oman", *19th Triennial Conference of the International Federation of Operational Research Societies (IFORS2011)*, 10-15 July 2011, Melbourne, Australia (presented).
132. **Ramakrishnan Ramanathan** and Adewole Oluwatomi Akanni (2011), "The moderating role of operations efficiency on the link between environmental performance and financial performance: Evidence from the UK using three independent datasets", *18th European Operations Management Association (EurOMA) Conference*, 3-6 July 2011, Cambridge UK (**Full paper** presented).
133. **Ramakrishnan Ramanathan** (2010), "The moderating effect of operations efficiency on the link between environmental performance and financial performance", Indira Gandhi Institute of Development Research (IGIDR), Mumbai, 12 December, 2010 (presented).
134. Wantao Yu and **Ramakrishnan Ramanathan** (2010), "Linkages among Business Relationships, Operations Strategy and Performance in China's Retail Sector", Academy of Management Annual Meeting, Montréal, Canada, 6-10 August, 2010. (**Full paper** accepted and presented).

135. Andrew Black, **Ramakrishnan Ramanathan** and Prithwiraj Nath (2010), "Flexible environmental regulations and performance: The moderating role of innovation", Academy of Management Annual Meeting, Montréal, Canada, 6-10 August, 2010. (**Full paper** accepted and presented).
136. Wantao Yu and **Ramakrishnan Ramanathan** (2010), "Business Environment, Employee Competencies and Operations Strategy: An empirical study of retail firms in China", 17th International Annual EurOMA Conference Managing Operations in Service Economies, 6-9 June 2010, Porto, Portugal (**Full paper** accepted and presented).
137. **Ramakrishnan Ramanathan** (2009), "Data Envelopment Analysis and an application for Environmental Policy in the UK", XIII Annual Conference of the Society of Operations Management – OM13 (ACSOM2009 – OM13), Chennai, India, 20-22 December 2009 (presented).
138. **Ramakrishnan Ramanathan** (2009), "Customer Intention to shop again in an E-Commerce Website: Link with handling product returns and risk", British Academy of Management 2009 Conference, BAM2009, Brighton Centre, Brighton, 15-17 September 2009. (**Full paper** accepted).
139. Wantao Yu and **Ramakrishnan Ramanathan** (2009), "The effects of business environment on operations strategy: an empirical study of retail firms in China", British Academy of Management 2009 Conference, BAM2009, Brighton Centre, Brighton, 15-17 September 2009. (**Full paper** accepted).
140. Prithwiraj Nath, Ramakrishnan Ramanathan, Andrew Black and Luc Muyldermans (2009), "Impact of Environmental Strategies and Environmental Management Practices on an Organisation's Environmental Performance: Evidence from the UK Manufacturing Sector", British Academy of Management 2009 Conference, BAM2009, Brighton Centre, Brighton, 15-17 September 2009. (**Full paper** accepted).
141. Mamdouh T. Tayeb, Kulwant S. Pawar and **R. Ramanathan** (2009), "The Determinants and Impact of outsourcing on Airlines' Performance", Logistics Research Network Annual Conference, 9-11 September 2009, Cardiff, UK (full paper presented).
142. **Ramakrishnan Ramanathan**, Chandra Lalwani, Neil Burns, Gajendra Kumar Adil, Kulwant Pawar and Janat Shah (2009), Next Generation Manufacturing Supply Chains: Issues and Challenges, International Symposium on Logistics, Istanbul, 5-8 July 2009 (presented).
143. **Ramakrishnan Ramanathan**, Luc Muyldermans, Prithwiraj Nath and Andrew Black (2009), " Impact of environmental regulations on innovation and performance in UK industrial Sector ", 16th Annual Conference of the European Operations Management Association, EurOMA-2009 Göteborg, Sweden, June 14-17, 2009 (presented and full paper included in the proceedings).
144. Wantao Yu and **Ramakrishnan Ramanathan** (2009), "Developing a Conceptual Model of the Impacts of Business Environment and Firm Resources on Operations Strategy and Performance", 2009 Annual International Conference of Production and Operations Management Society, May 1-4 in Orlando, Florida (presented).
145. **Ramakrishnan Ramanathan** (2009), "A Multiple Criteria Evaluation of Tourism locations: Adapting the Huff model using Data Envelopment Analysis", 2009 Annual International Conference of Production and Operations Management Society, May 1-4 in Orlando, Florida (presented).
146. **Ramakrishnan Ramanathan** (2009), "Influence of risk on the relationship between handling product returns and customer loyalty: An empirical analysis", 2009 Annual International Conference of Production and Operations Management Society, May 1-4 in Orlando, Florida (presented).
147. Nachiappan Subramanian and **Ramakrishnan Ramanathan** (2008) "A review of Analytic Hierarchy Process applications in Operations Management," 12th Annual Conference of the Society of Operations Management, Kanpur, India, December 19th – 21st (presented).
148. **Ramakrishnan Ramanathan** (2008), "Impacts of outsourcing on airline performance: A preliminary study", based on the ongoing work of PhD student Mr. Mamdouh Tayeb, at the NEX-GEM workshop, the Sixth International Conference on Manufacturing Research (ICMR08), Brunel University, 9-11 September 2008. (presented).
149. Wantao Yu and **Ramakrishnan Ramanathan** (2008), "Performance assessment of retail firms in the People's Republic of China", OR50 ANNUAL CONFERENCE 2008, 9th -11th September 2008, York, UK (Presented).

150. Prithwiraj Nath, Subramanian Nachiappan, **Ramakrishnan Ramanathan**, "Success in Business to Business Logistics: The Role of Marketing and Operations Capabilities", 37th Conference of the European Marketing Academy (EMAC), University of Brighton, UK, 27 to 30 May 2008 (presented).
151. Dipak Chaudhuri and **Ramakrishnan Ramanathan** (2008) "Optimisation models for ecotourism development in Al Jabal Al Akhdar region", Mountains of the World: Ecology, Conservation and Sustainable Development, An International Conference held at the Sultan Qaboos University, Muscat, Sultanate of Oman, February 10-14, 2008 (presented).
152. **Ramakrishnan Ramanathan** and Geetha Subramanian (2008) "Socio-Economic Impact Assessment of tourism development in Al Jabal Al Akhdar", Mountains of the World: Ecology, Conservation and Sustainable Development, An International Conference held at the Sultan Qaboos University, Muscat, Sultanate of Oman, February 10-14, 2008 (presented).
153. Nachiappan Subramanian and **Ramakrishnan Ramanathan** (2008) "Robust decision making using Data Envelopment Analytic Hierarchy Process", Proceedings of the 7th WSEAS International Conference on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING and DATA BASES (AIKED'08), Cambridge, UK, February 20-22, 2008, pp: 269-275 (presented).
154. Ji Cheng Zhu and **Ramakrishnan Ramanathan** (2008) A comparison of SERVQUAL and AHP approaches to measuring service quality of an IT Service Firm, 19th Annual Conference of the Production and Operations Management Society (POMS-2008), La Jolla, California, U.S.A., May 9 - 12, 2008 (Presented).
155. **Ramakrishnan Ramanathan** (2008), "Data Envelopment Analysis (DEA) – Introduction, Issues and OM Applications", Tutorial, 19th Annual Conference of the Production and Operations Management Society (POMS-2008), La Jolla, California, U.S.A., May 9 -12, 2008 (Presented).
156. **Ramakrishnan Ramanathan** and Geetha Subramanian (2007) A quantitative approach to socio-economic impact assessment of tourism development in a developing country, The 6th DeHaan Tourism Management Conference, Nottingham University Business School, 18th December 2007 (presented).
157. Subramanian Nachiappan and **Ramakrishnan Ramanathan** (2007), "A procedure for determining consistency index in DEAHP", INFORMS Annual Meeting 2007, Seattle, Washington, November 4-7 (presented).
158. Wantao Yu and **Ramakrishnan Ramanathan** (2007), "An assessment of operational efficiencies in the UK retail sector", Logistics Research Network Annual Conference 2007, Hull, UK, September 5-7, 2007 (presented). This work was subsequently published in the *International Journal of Retailing & Distribution Management* and was chosen as an **Outstanding Paper Award Winner** at the **prestigious Emerald Literati Network 2009 Awards for Excellence**.
159. **Ramakrishnan Ramanathan** (2006), "An Analysis of Indian Rural Energy and Agriculture Scenarios using Data Envelopment Analysis", Seventh International Conference on Operations and Quantitative Management, August 3-5, 2006, Jaipur, India (presented).
160. M. Mathirajan and **R. Ramanathan** (2005), "Scheduling the Tour of a Marketing Executive", International Conference on Computer and Industrial Management (ICIM 2005), October 29-30, Assumption University, Bangkok, Thailand (presented).
161. **R. Ramanathan** (2004), "An analysis of bank performance in selected Arab countries using DEA & Malmquist Productivity Index", Paper presented at the INFORMS Annual Meeting, Denver CO, October 24-27, 2004.
162. Ahti Salo, **Ramakrishnan Ramanathan** and Tommy Gustaffson (2001), "Supporting Foresight Processes with Multicriteria Decision Analysis", Paper presented at the European Operational Research Conference, held in Rotterdam, The Netherlands, July 9 – 11, 2001.
163. **R. Ramanathan** (2000), "Indian transport sector: implications for energy and environment, and scope for renewable technologies", Paper presented at the Millennium International Conference on Renewable Energy Technologies, Indian Institute of Technology Madras, Chennai, February 9-11, 2000.

164. Freerk A. Lootsma and **R. Ramanathan** (1999), "Some experiences on assessment of schools in the Netherlands: a comparison between DEA and MCDA", Paper presented at the Seventh IIASA/DAS Workshop on "The Future of Decision Analysis and Support", International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria, September 6 - 7, 1999.
165. **R. Ramanathan** (1999), "Alternative paths of transport development: Efficiency, Sustainability, and Socio-economic Analysis in the Indian Context", Paper presented at the 1999 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Shonan Village, Kanagawa, Japan, June 24-26, 1999.
166. **R. Ramanathan** (1998), "Urban Transport in India: Some Issues and Suggestions", Proceedings of the First Asia Pacific Conference on Transportation and the Environment, Singapore, 13-15 May, 1998, pp: 60-68.
167. **R. Ramanathan** and S. Geetha (1998), "Gasoline Consumption in India: An Econometric Analysis", Proceedings of the First Asia Pacific Conference on Transportation and the Environment, Singapore, 13-15 May, 1998, pp: 312-319.
168. **R. Ramanathan** and Jyoti K. Parikh (1997), "Transport Sector in India: Energy and Environmental Aspects." Paper presented at the UNEP Workshop on controlling GHG emissions from the transport sector, March 14-15, 1997, Nairobi, Kenya.
169. F.A. Lootsma, **R. Ramanathan** and H. Schuijt (1996), "Fair Allocations via Multi-Criteria Decision Analysis." Paper presented at the Workshop on Advances in Methodology and Software for Decision Support Systems, International Institute of Applied Systems Analysis (IIASA), A-2361 Laxenburg, Austria, September 8 - 10, 1996.
170. F.A Lootsma, **R. Ramanathan** and H. Schuijt (1997), "Fairness and Equity via Concepts of Multi-Criteria Decision Analysis", presented at the 13th International Conference on Multi-Criteria Decision Making, Cape Town, South Africa, 6-10 January 1997.
171. **R. Ramanathan** (1996), Group decision making using Multiplicative AHP, Proceedings of the Fourth International Symposium on the Analytic Hierarchy Process, Simon Fraser University, Burnaby, British Columbia, Canada, 12-15 July, 1996, pp: 262-272.
172. Barnali Nag and **R. Ramanathan** (1996), "An application of AHP for socio-economic impact assessment." Proceedings of the Fourth International Symposium on the Analytic Hierarchy Process, Simon Fraser University, Burnaby, British Columbia, Canada, 12-15 July, 1996, pp: 355-362.
173. **R. Ramanathan** and L.S.Ganesh (1991), "Differential weightages in group preference aggregation: A hierarchical approach", Proceedings of the International AMSE Conference, Vol.5, pp: 115-125.
174. **R. Ramanathan** and L.S.Ganesh (1991), "The geometric mean method of combining individual opinions: A critique on the application of AHP to group decision processes", Proceedings of the International AMSE Conference, Vol.5, pp: 101-113.
175. L.S.Ganesh, **R. Ramanathan** and B.Suresh (1990), "Dynamic analysis of expert evaluations", Proceedings of the International *AMSE Conference*, Vol.2, pp:101-106.

Regional (Indian) conferences (presented)

176. Jyoti K. Parikh and **R. Ramanathan** (1998), "Biofuels scenarios for rural India and their greenhouse gas implications", Paper presented at the Second All-India Conference on Mathematical Modelling and Computer Simulation, Indira Gandhi Institute of Development Research, Mumbai, August 6-7, 1998.
177. **R. Ramanathan** (1997), "Emerging Research Trends in Trade and Transport", Invited participant as a resource person in the National Seminar on Emerging Trends in Research in Commerce and Management organised by the University Department of Commerce, University of Mumbai, 28-29 November, 1997.
178. **R. Ramanathan** and Jyoti K. Parikh (1997), "Trends in Transport Sector in India", Paper presented at the National Seminar on Energy Conservation in Transport Sector, Mumbai, 29th November, 1997.
179. **R. Ramanathan** (1997), "India's Infrastructure: Railways", in: Western Regional Cooperation on Infrastructure: Vision 2000, Indian Merchants' Chamber, Mumbai, pp: 187-203.

180. **R. Ramanathan** and Sudipa Majumdar (1997), "India's Infrastructure: Aviation", in: Western Regional Co-operation on Infrastructure: Vision 2000, Indian Merchants' Chamber, Mumbai, pp: 115-129.
181. D.Chattopadhyay and **R. Ramanathan** (1996), "An Analysis of Competitive Bidding for Generation Capacity Addition", in: Arindam Ghosh (Ed.), Proceedings of the Ninth National Power Systems Conference (NPSC '96), Allied Publishers, New Delhi, pp: 444-448.
182. N.Vinod Kumar, **R. Ramanathan** and L.S.Ganesh, "A Comparative Analysis of the Group Preference Aggregation Methods Employed in AHP", Paper presented at the Silver Jubilee convention of the Operational Research Society of India (OR-92), Ahmedabad, India, December, 1992.
183. **R. Ramanathan** and L.S.Ganesh, "Optimal Mix of Energy Resources for Household Electricity Generation: A Multicriteria Analysis Using AHP", Paper presented at the 25th National Seminar on Energy, conducted by Energy and Fuel Users' Association of India, Madras, January, 29, 1993.
184. **R. Ramanathan** and L.S.Ganesh, "Resource Allocation Incorporating Quantitative and Qualitative Criteria: An Integrated Model using Goal Programming and AHP", Paper presented at the Silver Jubilee convention of the Operational Research Society of India (OR-92), Ahmedabad, India, December, 1992.
185. **R. Ramanathan** and L.S.Ganesh, "A Multi-Objective Evaluation of Energy Alternatives for Cooking", Paper presented at the Silver Jubilee convention of the Operational Research Society of India (OR-92), Ahmedabad, India, December, 1992.
186. **R. Ramanathan** and L.S.Ganesh, "Equilibrium priorities in AHP networks: An eigenvector approach", Paper presented at the 24th Annual Convention of the Operational Research Society of India (ORSI), Bangalore, December 1991.
187. **R. Ramanathan** and L.S.Ganesh, "Energy demand and supply - A morphological analysis", Paper presented at the Seminar on Energy Options for the 90s, conducted by Energy and Fuel Users' Association of India, Madras, January, 1991.

International conferences (accepted but not presented)

188. Shantha Lakshmi Belavadi Nagaraja Swamy, **Ramakrishnan Ramanathan**, Yanqing Duan, Tahmina Ajmal and Marc Jones, (2023), "Modelling the impact of data from scouting robots on fresh food supply chains", 8th North American Conference on Industrial Engineering and Operations Management in Houston, Texas, USA during June 13-15, 2023. (Abstract accepted)
189. Yanqing Duan, Guangming Cao and **Ramakrishnan Ramanathan** (2019), "A Systematic Literature Review on the Applications of Big Data Analytics - Identifying Influential Factors and Impact", Paper accepted for presentation the 2019 International Conference on Information Resources Management, May 27 - 29 / Auckland, New Zealand.
190. **Ramakrishnan Ramanathan** (2017), "How can Operational Research and Statistics be combined to support policy decisions? The case of environmental policy", Invited talk at the International Conference on "Recent Trends in Operations Research and Statistics (RTORS-2017)" December 28-30, 2017. (Could not attend the conference due to flight cancellation).
191. **Ramakrishnan Ramanathan** (2016), "Impact of flexibility of environmental regulations on the link between innovation and financial performance", POM 2016 - Twenty Seventh Annual Conference, Orlando, FL, U.S.A, May 6 – May 9, 2016 (accepted).
192. **Ramanathan, R.**, Y. Duan, E. Philpott and U. Ramanathan (2015), A research framework on the role of Big Data in the logistics sector, 2015 Winter Global Business Conference, Tignes in France, February 02-06, 2015 (accepted).
193. **Ramakrishnan Ramanathan**, Yanqing Duan, Guangming Cao and Elly Philpott (2013), " Diffusion and impact of business analytics on performance: A qualitative study in the UK retail sector" International conference on Business Analytics and Intelligence, Indian Institute of Management Bangalore, India, 11-13 December 2013.
194. **Ramakrishnan Ramanathan** (2012), "Impact of Environmental Regulations on Innovation, Performance and Sustainability of firms: An account of experience in using data from ONS and VML", An event on "The Changing Shape of UK Business" organised by the Office for National Statistics on 6th November 2012. (Abstract has been included in the Welcome Pack of the event.)

195. **Ramakrishnan Ramanathan** (2012), "Understanding complexity: the curvilinear relationship between environmental and financial performances", 2012 POMS Annual Conference, 20-23 April, 2012, Chicago (accepted for presentation).
196. **Ramakrishnan Ramanathan**, Tugce Karpuzcu and Usha Ramanathan (2011), "Impact of e-services on the links between operational performance and customer satisfaction in Physical Distribution", Abstract submitted for possible presentation at the Tenth International Conference on Operations and Quantitative Management (ICOQM-10), Nashik, India, June 28-30, 2011.
197. Prithwiraj Nath, **Ramakrishnan Ramanathan** and Wantao Yu (2010), "Retail Performance: The Role of Marketing, Operations, and Environmental Capabilities", EMAC 2010 Conference, Copenhagen Business School, Copenhagen, Denmark, 1-4 June 2010.
198. Zhang Yubo and **Ramakrishnan Ramanathan**, "Impact of resource capabilities of the UK hotels on performance using DEA and statistical modelling", Abstract submitted for presentation at the ALIO-INFORMS Joint International Meeting, Buenos Aires, Argentina, June 6-9, 2010.
199. **Ramakrishnan Ramanathan** (2008), "A Balanced Efficiency Assessment Method for UK health sector", INFORMS Annual Meeting 2008, Washington, DC, Oct. 12-15, 2008 (accepted).
200. **Ramakrishnan Ramanathan** (2008), "Competitive facility location using Data Envelopment Analysis", 18th Triennial Conference of the International Federation of Operational Research Societies (IFORS), Sandton, South Africa, 13-18 July (Invited and accepted).
201. **Ramakrishnan Ramanathan** (2007), "Policies for optimal stocking of textbooks in the textbook centre of a college", INFORMS Annual Meeting 2007, Seattle, Washington, November 4-7 (accepted).
202. **Ramakrishnan Ramanathan** (2005), "Multiple criteria facility location: Adapting the Huff model using DEA and an application to the tourism sector in Oman", Logistics & Supply Chain Management stream, OR47 - Operational Research Society Conference, University College, Chester, UK, 13 – 15 September 2005 (accepted).
203. **Ramakrishnan Ramanathan** (2005), "Analyzing relationships among World GDP, energy consumption and carbon dioxide emissions using DEA", INFORMS Annual Meeting, New Orleans, November 13-16, 2005 (accepted).
204. Usha Ramanathan and **Ramakrishnan Ramanathan** (2005), "An analysis of the performance of Computing industry in Oman", Paper accepted for presentation at the IFORS-2005 Conference, Honolulu, Hawaii, USA, July 11-15, 2005.
205. **Ramakrishnan Ramanathan** (2005), "A Data Envelopment Analysis Approach to location decisions and an application to the location of tourist spots in Oman", Paper accepted for presentation at the IFORS-2005 Conference, Honolulu, Hawaii, USA, July 11-15, 2005.
206. Muthu Mathirajan and **Ramakrishnan Ramanathan** (2005), "A (0-1) Goal Programming Approach for Scheduling the Tour of a Marketing Executive", Paper accepted for presentation at the IFORS-2005 Conference, Honolulu, Hawaii, USA, July 11-15, 2005.
207. **R. Ramanathan** and S. Geetha (2003), "Short and Long-Run Elasticities of Gasoline Demand in the Sultanate of Oman: an empirical analysis using Cointegration Techniques", Paper accepted for presentation at the 23rd IAEE North American Conference, Mexico city, October 19-21, 2003.
208. **R. Ramanathan** (2000), "The use of Multi-Criteria Approaches to aid Life Cycle Assessment decisions", Paper accepted for presentation at the Fourth International Conference on Ecobalance held at Epochal Tsukuba, Tsukuba, Japan, October 31-November 2, 2000.
209. **R. Ramanathan** (2000), "Can MCDM complement DEA for performance measurement?: Some issues on the limitations of DEA and applicability of MCDM", Paper accepted for presentation at the XV International Conference on Multiple Criteria Decision Making, Middle East Technical University, Ankara, TURKEY, July 10-14, 2000.
210. **R. Ramanathan** (2000), "A comparison of Data Envelopment Analysis and Goal-Programming based Multi-Criteria Analysis for Performance Assessment: A case study of schools in the Netherlands", Paper accepted for presentation at the Fourth International Conference on Multi-Objective Programming and Goal Programming: Theory & Applications, Katowice, Poland, May 30, 31; June 1, 2, 2000.

Regional (Indian) conferences (accepted but not presented)

211. N.Vinod Kumar, **R. Ramanathan** and L.S.Ganesh, "An Evaluation, Based on Social Choice Axioms, of the Group Preference Aggregation Methods Employed in AHP", Paper accepted for presentation at the International AMSE conference, "Signals, Data and Systems", Calcutta, December, 1992.
212. **R. Ramanathan** and L.S.Ganesh, "Centralized Vs Decentralized Electricity Generation Options for Households: A Multi-objective Evaluation", Paper accepted for presentation at the International AMSE conference, "Signals, Data and Systems", Calcutta, December, 1992.
213. S.Koundinya, Debabratha Chattopadhyay and **R. Ramanathan** (1994), "Incorporating qualitative objectives in integrated resource planning: An AHP - compromise programming model", Paper accepted for presentation in the Twenty-Seventh Convention of the Operational Research Society of India (ORSI), Indian Institute of Management, Calcutta, December 20-22, 1994.

Other Presentations

214. **Ramakrishnan Ramanathan** (2023), "Exploring the use of digital technologies for sustainability and GHG reductions in UAE food supply chains," Paper discussed at the COP28 Global Climate Conference, Dubai, December 10, 2023. **(This presentation has included my UoS affiliation.)**