

RUPESH KUMAR PATI

Professor, Quantitative Methods and Operations Management,

Indian Institute of Management Kozhikode,

IIMK Campus P. O., Kozhikode, Kerala, India, PIN - 673 570.

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ACADEMIC POSITION AND PRIOR WORK EXPERIENCE			
Designation		Employer Name	Period of Job
Professor		Indian Institute of Management Kozhikode, Kerala, India	April 2021 onwards
Associate Professor		Indian Institute of Management Kozhikode, Kerala, India	June '2012 –April 2021
Assistant Professor		Indian Institute of Management Kozhikode, Kerala, India	May'2009 - June 2012
Visiting Assistant Professor		Indian Institute of Management Kozhikode, Kerala, India	May' 2007 - May'09
Scientist /Engineer-SC		Indian Space Research Organization, Sriharikota, Andhra Pradesh, India	Dec' 2005-Apr' 2007
EDUCATION			
Ph.D.	Jan' 2003 - Feb'2006	Indian Institute of Technology, Roorkee (Closed Loop Supply Chain Management)	Completed PhD in 3 Years
M. Tech.	Jul' 2000 - Dec' 2001	IIT (Indian School of Mines), Dhanbad (Industrial Engineering and Management)	Gold Medalist
B. Tech.	Aug 1996 - June 2000	C.E.T. (OUAT), Bhubaneswar (Mechanical Engineering)	-
CURRENT RESEARCH INTEREST			
- Sustainable operations in various sectors like pharmaceutical, chemical, food etc - Digital Transformation Projects			
INDUSTRIAL WORK EXPERIENCE			
Nov' 05 - May' 07		Scientist /Engineer-SC, Indian Space Research Organization	
Member of Program Planning and Evaluation Group (PPEG) responsible for project planning and monitoring of launch of Polar Satellite Launch Vehicle (PSLV) Geosynchronous Satellite Launch Vehicle (GSLV) from SatishDhawan Space Center Sriharikota (space port of India)			

ACADEMIC AWARDS, HONORS, FELLOWSHIPS&RECOGNITION

- The research paper on “A multi-objective optimization model for paper recycling system”, OMEGA, Vol. 36, 2008, 405-417, had the 10th rank in the TOP 25 HOTTEST ARTICLES in Decision Sciences Area during the Oct-Dec, 2007 period.
- The research paper Narayanan, S. A.; Pati, R.K., Vrat, P., 2014, “Managerial Research on the Pharmaceutical Supply Chain - A Critical Review and Some Insights”, Journal of Purchasing and Supply Management (Formerly known as European Journal of Purchasing & Supply Management), vol. 20, 18–40 is considered as the third Hottest paper most downloaded of the Journal in 2014
- Awarded Emerald/IAM Indian Management Research Fund Award 2010 (supporting the dissemination of knowledge for social good in India) by perusing the research on “Reverse Logistics in the Indian Pharmaceutical Industry” (along with Ms. Sushmita A. Narayana)
- Received Indo Shastri Partnership Development Seed Grant (2012-13) for conducting research at HEC Montreal, Canada on Designing Green Supply Chain: Lessons from Pharmaceutical Sectors in India and Canada.
- Gold Medal Winner in M.Tech at Indian School of Mines (Currently IIT ISM), Dhanbad

ADMINISTRATIVE ROLES AT IIM KOZHIKODE

- Chairperson-Post Graduate Program at IIMK from 2015-2017
- Common Admissions Test (CAT) conducting committee: 2010-12
- Admissions Chairperson: 2010-12
- Members of following committees:
- FPM (PhD) Guides of 4 students
- Member of FPM Dissertation Committee-6 students
- Research & publication committee: 2010-12
- Post Graduate program’s Executive committee: 2010-12, 2015-17
- Admissions Committee IIMK – 2017-2019
- PGP Executive committee- 2010-12, 2017-19
- EPGP Kochi Executive committee-2017-19
- Research and Accreditation Committee 2019-21
- SWC chairperson 2019-21
- AV Upgradation Committee (old block and new block) 2017-21
- MDP Committee executive member 2020-2022

CASE PUBLICATIONS (IVEY)

- Aditya Birla Fashion and Retail: Stitching Sustainability (product # W37542), Ivey Publishing, 8th October, 2024 with Padhi, S.S., Tyagi, N., <https://www.iveypublishing.ca/s/product/aditya-birla->

fashion-and-retail-stitching-sustainability/01tOF000005lOiLYAU?tabset-a9da8=3&t=1728369828788

JOURNAL PUBLICATIONS (Published)

1. Policy analysis in agrochemical supply chain: a system dynamics approach. *Annals of Operations Research*, 2024. Kannan, D., Sidhartha S. Padhi, Chunguang Bai, <https://doi.org/10.1007/s10479-024-06113-2> (A- ABDC)
2. “Is Localization Better than Globalization for Sustainability? Evidence from the Nutraceuticals Industry for Managing Malnutrition in India” *International Journal of Production Economics Volume 268*, 2024, 109106, ISSN 0925-5273, Shailly Chaurasia, Sidhartha S. Padhi, Nagesh Gavirneni - <https://doi.org/10.1016/j.ijpe.2023.109106> (A- ABDC).
3. “Sustainable Information Technology and Information System: A Systematic Literature Review, Taxonomy, and Agenda for Future Research”, *Asia Pacific Journal of Information Systems*, 2023, 33(2), 468-512 with Jayaprakash, P. DOI: [10.14329/apjis.2023.33.2.468](https://doi.org/10.14329/apjis.2023.33.2.468)
4. “Adoption of symbolic versus substantive sustainability practices by lower-tier suppliers: a behavioural view”, *International Journal of Production Research*, 2022, 60(15), 4817-4844, DOI: 10.1080/00207543.2021.193945 – With M. S. Shalique, Siddhartha S. Padhi, Jayanth Jayaram DOI: [10.1080/00207543.2021.1939454](https://doi.org/10.1080/00207543.2021.1939454) (A- ABDC)
5. “Achieving the United Nations Sustainable Development Goals-2030 through the Nutraceutical Industry: A Review of Managerial Research and the Role of Operations Management”, *Decision Sciences*, 2022, 53,630-645, with Chaurasia, S., Padhi, S.S., Jensen, J., Gavirneni, S. DOI: [10.1111/deci.12515](https://doi.org/10.1111/deci.12515) (A* (ABDC-2019).
6. "Assessment of Systemic Greenness: A Case Study of Tyre Manufacturing Unit", *Production Planning and Control*, 2020, Volume 31, 11-12, 1035-1060 – with Gopalakrishnan, N., Sengupta, T., Gupta, V., Anand, G., Venkatesh, M. DOI: [10.1080/09537287.2019.1695920](https://doi.org/10.1080/09537287.2019.1695920) – A (ABDC-2019)
7. “Supply chain sustainability and performance of firms: A meta-analysis of the literature”, *Transportation Research Part E: Logistics and Transportation Review*, May 2020, Volume 137, 101923 - with Govindan, K. Rajeev, A, Padhi, S.S. DOI: [10.1016/j.tre.2020.101923](https://doi.org/10.1016/j.tre.2020.101923)- (A* (ABDC-2019)
8. “Tourist choice of heritage sites in Romania: a conjoint choice model of site attributes and variety seeking behavior”, *Journal of Heritage Tourism*, online September 2020, DOI: 10.1080/1743873X.2020.1818763 with Lupu C., Padhi, S.S., Stoleriu, O.M. DOI: [10.1080/1743873X.2020.1818763](https://doi.org/10.1080/1743873X.2020.1818763)-- B (ABDC-2019)

9. "Market dynamics and reverse logistics for sustainability in the Indian Pharmaceuticals industry, *Journal of Cleaner Production*, 2019, 208, 968-987 -with Narayana, S.A., Padhi, S.S
DOI: [10.1016/j.jclepro.2018.10.171](https://doi.org/10.1016/j.jclepro.2018.10.171)– A (ABDC-2019)
10. "Sustainable Supply Chain in the Chemical Industry: Evolution, Opportunities, and Challenges of Managerial Research", *Resources, Conservation & Recycling*, 2019, Volume 149, October 2019, Pages 275-291 - with Rajeev A, Padhi, S. S. DOI: [10.1016/j.resconrec.2019.05.020](https://doi.org/10.1016/j.resconrec.2019.05.020) (Impact Factor-7+ scopus top 25)
11. Framework for Selecting Sustainable Supply Chain Processes and Industries Using an Integrated Approach", *Journal of Cleaner Production*, 2018, 184, 969-984.- with Padhi, S.S., Rajeev, A. DOI: [10.1016/j.jclepro.2018.02.306](https://doi.org/10.1016/j.jclepro.2018.02.306) – A (ABDC-2019)
12. "Evolution of Sustainability in Supply Chain Management: A Literature Review, *Journal of Cleaner Production*, 2017, 162, 299-314 with Rajeev A., Pati, R.K., Padhi, S.S., Kannan. G. DOI: [10.1016/j.jclepro.2017.05.026](https://doi.org/10.1016/j.jclepro.2017.05.026)– A (ABDC-2019)
13. "Quantifying Potential Tourist Behavior in Choice of Destination using Google Trends", *Tourism Management Perspectives*, 2017, 24, 34-47 with Padhi, S.S. DOI: [10.1016/j.tmp.2017.07.001](https://doi.org/10.1016/j.tmp.2017.07.001)– A (ABDC-2019)
14. "Managerial Research on the Pharmaceutical Supply Chain - A Critical Review and Some Insights for Future Direction", *Journal of Purchasing and Supply Management* (Formerly known as European Journal of Purchasing & Supply Management), 2014, 20(1), 18-40 with Narayanan, S. A.; Vrat, P. DOI: [10.1016/j.pursup.2013.09.001](https://doi.org/10.1016/j.pursup.2013.09.001)– A (ABDC-2014)
15. "Reverse Logistics in a Pharmaceutical Supply Chain: A Systemic Analysis", *International Journal of Logistics Management*, 2014, 25(2), 379-398 with Narayanan, S. A, Elias, A.A. DOI: [10.1108/IJLM-08-2012-0073](https://doi.org/10.1108/IJLM-08-2012-0073)– A (ABDC-2014)
16. "Optimization of Process Parameters by Taguchi Robust Design Method for the Development of Nanocrystals of Sirolimus Using Sonication Based Crystallization", *Crystal Research and Technology*, 2012, 47(1), 53-72 with Gandhi, P.J., Murthy, Z.V.P. DOI: [10.1002/crat.201100329](https://doi.org/10.1002/crat.201100329)
17. "Managerial Research in the Pharmaceutical Industry: A Literature Review", *International Journal of Pharmaceutical and Healthcare Marketing*, 2012, 6(4), 351 – 375 with Narayanan, S.A., Vrat, P. DOI: [10.1108/17506121211283235](https://doi.org/10.1108/17506121211283235)
18. "Can Projects on Blockchain Reduce Risks in Supply Chain Management? An Oil Company Case Study", *IIM Kozhikode Society & Management Review*, 2020, 9(2) 189–201, DOI: 10.1177/2277975220913370 with Vishnubhotla, A.K., Padhi, S.S. DOI: [10.1177/2277975220913370](https://doi.org/10.1177/2277975220913370) -- (B- ABS-2019)

19. "Quantifying Bullwhip Effect in a Closed Loop Supply Chain", *OPSEARCH*, 2011, 47(4) with Vrat, P.; Kumar, P. DOI: [10.1007/s12597-010-0024-z](https://doi.org/10.1007/s12597-010-0024-z)
20. "Economic Paper Blending Optimization Model with Competing Materials", *Management of Environmental Quality An International Journal*, 2010, 21(5), 602-617 with Vrat, P., DOI: [10.1108/14777831011067917](https://doi.org/10.1108/14777831011067917)
21. "A Multi-Objective Optimization Model for Paper Recycling System", *OMEGA-International Journal of Management Sciences*, 2008, 36, 405-417 with Vrat, P.; Kumar, P. DOI: [10.1016/j.omega.2006.04.014](https://doi.org/10.1016/j.omega.2006.04.014) – A* (ABDC-2008)
22. "Economic Analysis of Paper Recycling vis-à-vis Wood as Raw Material", *International Journal of Production Economics*, 2006, 103, 489-508 with Vrat, P.; Kumar, P. DOI: [10.1016/j.ijpe.2005.08.006](https://doi.org/10.1016/j.ijpe.2005.08.006) – A* (ABDC-2006)
23. "Integrated Chain Analysis of Recycled Vis-À-Vis Wood Pulp Paper Industry – An Indian Manufacturer Viewpoint", *International Journal of Value Chain Management*, 2006, 1(1), 44-63, with Vrat, P.; Kumar, P. DOI: [10.1504/IJVC.2006.009023](https://doi.org/10.1504/IJVC.2006.009023)
24. Cost Optimization Model in Recycled Waste Reverse Logistics System", *International Journal of Business Performance Management*, 2004, 6(3/4), 245-261, with Vrat, P.; Kumar, P. DOI: [10.1504/ijbpm.2004.005631](https://doi.org/10.1504/ijbpm.2004.005631)
25. "Analysis of Aadhaar: A Project Management Perspective", *IIM Kozhikode Society & Management Review*, 2015, 4(2), 124-135.- Kumr, V., Jain, N., with –B(ABS-2018) <https://doi.org/10.1177/227797521561>
26. "Modelling Bullwhip Effect in a Closed Loop Supply Chain with ARMA Demand", *IIM Kozhikode Society & Management Review*, 2014, 3(2), 149-164 <https://journals.sagepub.com/doi/10.1177/2277975214542894> –B(ABS-2018)
27. "A MILP Model for Design of Paper Recycling Network", *International Journal of Ecology and Development*, 2008, 9(08), 69-86, with Vrat, P.; Kumar, P. [Corpus ID: 111248499](https://doi.org/10.1002/9781112484999)
28. "Three-Win Strategy with Optimization Approach for Recycled Paper Manufacturer", *International Journal of Environment and Waste Management*, 2007, 1(2/3), 269-290, with Vrat, P.; Kumar, P. DOI: [10.1504/ijewm.2007.013636](https://doi.org/10.1504/ijewm.2007.013636)
29. "When and How Can the Product Return Make Business Sense to Achieve Swatchh Bharat Mission Objective", *Domain-The Journal of Management Research*, 2018, 9/10 (1), 28-29.
30. "Systems Engineering Approach to Reusable Launch Vehicle", *International Journal of Applied Engineering Research*, 2010, 5(7), 1121-1135.
31. "Decision Making Model for Economical Wastepaper Collection", *Productivity*, 2009, 49(4), 265-271, with Vrat, P.; Kumar, P.

32. "Reverse Logistics Model in the paper Industry", *Productivity*, 2003, 44(3), 443-451, - with Vrat, P.; Kumar, P

1. JOURNAL PUBLICATIONS (Submitted –various stages of review)

CONFERENCE PROCEEDINGS

1. "Digital Technology on Enhancing Sustainability - A Literature Review Perspective", 32nd Annual POMS Conference 2022 (online), April 21-25, with Mr. V Krishna Anaparthi
2. "Freedom from Malnutrition- A Myth or Reality", 32nd Annual POMS Conference 2022 (online), April 21-25, with Shailly C., Padhi, SS.
3. "Sustainability in Healthcare Operations: A Systematic Literature Review", INFORMS Annual Meeting, Anaheim, California, USA, 2021, October 24 – 27, with Puram, P., Anand, G..
4. "Sustainability in Healthcare Operations Management: a Systematic Literature Review", 31st Annual Conference of the Production & Operations Management Society (POMS) 2021, April 30 - 5 May, with Puram, P., Anand, G.
5. "Do digital technologies lead to sustainability goals: A systematic literature review", POMS India International Conference 2021, December 22- 24, S. P. Jain Institute of Management & Research, Mumbai, India. With Riddhi Goel
6. "From Sustenance (Nutraceutical Industry) to sustainability (UNSDG-2030): An Exploratory Network Analysis", International conclave on Globalizing Indian Thoughts (GIT) 2020, Jan 16-18, with Shailly C., Padhi, SS.
7. "Improving Municipal Solid Waste Management in Industry 4.0 Age - A Stakeholder's Perspective", International conclave on Globalizing Indian Thoughts (GIT) 2020, Jan 16-18, with Nawazish, M.
8. "The Industry 4.0 role in sustainable supply chain - A literature review", International Conference on Operations Research and Decision Sciences 2019 (ICORDS), Dec 28-30, 2019, with Nawazish, M.
9. "Enhancing Sustainability using proper SWM practices – A Step towards Swachh Bharat Abhiyan (SBA)", National Seminar on Vision 3E, Bhubaneswar, India, Dec 13-14, 2019.
10. "Analysis of Triple Bottom Line Performance in Indian Fertilizer Supply Chain: A System Dynamics Approach", *POMS 2018 Annual conference*, Houston, U.S.A., 4 - 7 May 2018 with Rajeev A., Sidhartha S. Padhi,
11. "Can Pharmaceutical Industries Help Healthcare Sector to Attain Sustainability in Developing Economies", World Congress on Pharmaceutical and Chemical Sciences, 3-5 May, Madrid, Spain, 2017, with Padhi, S.S.
12. "Sustainability in Healthcare for Nations Overall Growth: In developing and Underdeveloped countries", 6th World Nursing and Health Care Conference, OMICS International, London UK, 15-17

August, 2016.

13. "Future of Shipping Industry Logistics Sector in the Global and Competitive Environment-Role of Kerala", Conference and Exposition "Logistics Conclave: Logistics Kerala-Emerging Opportunities Trends and Technologies", 1-2 August, Kochi, 2016.
14. "A Systematic Review of Sustainability Research in Chemical Supply Chains", POMS India Chapter Conference, Mumbai, July 29-30, 2016, with Rajeev, A., Padhi, S.S.
15. "Review of Methodologies and Models in Supply Chain Sustainability Literature", POMS India Chapter Conference, Mumbai, July 29-30, 2016 with Padalkar, M.
16. "Sustainable and Green Supply Chain Management: Literature Review", Global Cleaner Production & Sustainable Consumption Conference: Accelerating the Transition to Equitable Post Fossil-Carbon Societies, Sitges, Barcelona, Spain, 1 - 4 November, 2015, with Rajeev, A., Padhi, S.S.
17. "Green Practices and Performance Measures: A Literature Review", National Conference and Workshop on Sustainable Manufacturing for Brighter Future, Malviya National Institute of Technology (MNIT)), Jaipur, Rajasthan, India, January 2-4, 2015, with Narayanamurthy, G, Anand, G.
18. "Positives, Negatives and Future of AADHAAR A Project Management Perspective, ", PMI India Research & Academic Conference 2015, Mumbai, India, 13 - 15 February 2015, with Kumar V., Jain N.
19. "Improving Sustainability in the Indian Pharmaceuticals Industry through Reverse Logistics: A Conceptual Study", POMS International conference, Singapore July 21-23, 2014, with Narayana, S.
20. "Green Logistics Network Design: A critical review", POMS Denver, USA, May3-6, 2013 with Jans, R., Tyagi, R.K.
21. "Analysing Reverse Logistics in the Indian Pharmaceuticals Industry: A Systems Approach", ANZAM, Perth Australia, December 5-7, 2012, with Arun, E., Narayana, S.A.
22. "Reverse logistics in the Indian pharmaceutical industry: A case study", XVI Annual International Conference of The Society of Operations Management, IIT Delhi, December 21-23, 2012, Narayana, S.
23. "Progress of Managerial Research in the Pharmaceuticals Industry: Implications for the Pharmaceutical Supply Chain", NOFOMA, Denmark, June 10-11, 2010, 777-792, Narayana, S.
24. "Green Supply Chain Management: Literature Review", NOFOMA, June 10-11, 2010, 925-934, with Sukla M., Jharkaria, S.
25. "Redesigning Distribution Network using Integer Non-Linear Programming", SOM conference, IIT

madras, Dec 20-22, 2009, with Koteswararao, M., Nagarajan, T., Ram, S.K. 26. “Optimal Blending Model for Paper Manufacturing With Competing Input Materials”, POMS 18th Annual Conference, Dallas, Texas, U.S.A., May 4-7, 2007, with Vrat, P., 27. “Strategy to Encourage Wastepaper Recycling – A Linear Programming Approach”, 1st International Conference on Operations and Supply Chain Management, Bali, 2005, with Vrat, P.; Kumar, P. 28. “Recovery Analysis of Reverse Supply Chain in a Paper Industry”, Annals of DAAAM 2004 & Proceedings of the 15th International DAAAM symposium, Vienna, Austria. pp. 337-338, 2004, with Vrat, P.; Kumar, P. 29. “Application of Supply Chain Management to Indian Paper Sector”, XIII National ISME Conference, IIT Roorkee, 2003, with Vrat, P.; Kumar, P.
REVIEWER OF JOURNALS ARTICLES
▪ Journal of Cleaner Production ▪ Transportation Research-Part E ▪ Supply Chain Management: an International Journal ▪ International Journal of Logistics Management ▪ International Journal of Production Economics ▪ Resources, Conservation and Recycling ▪ Computers and Industrial Engineering ▪ Applied Mathematical Modelling etc.
TEACHING EXPERIENCES AT IIM KOZHIKODE (Graduate and Executive Levels)
▪ Supply Chain Management (Graduate and executive program)- 2008-17 ▪ Green Business (Research FPM Program) – 2010-17 ▪ Project Management (Graduate & executive program)- 2010-2022 ▪ Operations Research (Graduate Program) from (2007-17) ▪ Operations Management-II (Graduate Program) in 2009 ▪ Service Operations Management (Graduate and executive program)- 2007-17 ▪ Quality Management (executive program)-2009-17 ▪ Business Process Reengineering (executive program)- 2007-17
TEACHING EXPERIENCES AT IIM KOZHIKODE (Management Development Program)
▪ Digital Transformation ▪ Supply chain management ▪ Project management ▪ Enterprise Risk Management

- Business Process Reengineering
- Materials & Inventory management
- Quality Management

MDP/FDP COORDINATOR & also Faculty

- Involved in Customized Management Development Program as a coordinator in large number of Indian corporate like Reliance Industries Limited, Department of Atomic Energy, DRDO, IOFS, BEL, NTPC, NHPC, Maharastra Transmission company, Kerala Medical Services Limited, Cochin Shipyard Limited, Shapoorji Pallonji & Co. Ltd, Sundaram Fasteners Limited, L&T, Punjab Power Corporation, Cochin shipyard Limited on the area of Project management, Supply Chain Management, Enterprise Risk Management etc.
- 75 hr EMDP on Project Management for working executive over platform model
- 75 hr EMDP on Digital transformation and Strategy for working executive over platform model
- 120 hrs EMDP on Smart Supply Chain Management and Transformation for working executive over platform model