

MANISH SARKHEL

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FPM 218, Indian Institute of Management, Indore

Prabandh Shikar, Rau Pithampur Road, Indore-453331, Madhya Pradesh

EDUCATION

Indian Institute of Management, Indore

July 2014 - October 2019

Fellow Programme in Management

Operations Management & Quantitative Techniques Area

Kalinga Institute of Industrial Technology, Bhubaneswar

July 2008 - June 2012

Bachelor of Technology, Electrical

THESIS

- **THESIS TITLE:** Competitive Dynamics in Effluent Treatment Industry
- **COMPLETION (Thesis Defense Date):** 16 October, 2019
- **THESIS ADVISORY COMMITTEE:**

Nagarajan Krishnamurthy Indian Institute of Management, Indore Rau-Pithampur Road Indore 453 556, India. Ph. No.: 07312439581 E-mail: nagarajan@iimidr.ac.in	Omkar D. Palsule Desai Indian Institute of Management, Indore Rau-Pithampur Road Indore 453 556, India. Ph. No.: 07312439567 E-mail: omkardpd@iimidr.ac.in	Saurabh Chandra Indian Institute of Management, Indore Rau-Pithampur Road Indore 453 556, India. Ph. No.: 07312439530 E-mail: saurabh@iimidr.ac.in
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PUBLICATIONS

- Manish Sarkhel, & Nagarajan Krishnamurthy, Stability in Core-Periphery Production Networks, *International Game Theory Review* (ABDC: B, Accepted for publication)
- A Mixed Integer Optimization Model for Municipal Waste Recycling Using Cross-Docking, Book of Abstracts: 2017 IIM Indore- INDAM Conference Indore Management Journal (IMJ)- Special Issue, 2017

PAPERS TO BE SUBMITTED

- Manish Sarkhel, & Nagarajan Krishnamurthy, Impact of network structure on double marginalization & supply chain profits
Targeted Journal: IISE Transactions (ABDC: A)
- Manish Sarkhel, Supply Chain Coordination Contracts and Ethanol Adoption in India
Targeted Journal: Journal of Cleaner Production (ABDC: A)
- Manish Sarkhel, & Nagarajan Krishnamurthy, Accessing the bottom of the pyramid: A game-theoretic perspective on distribution in rural areas
Targeted Journal: Marketing Letters (ABDC: A)
- Saurabh Chandra, Manish Sarkhel, & Amit Kumar Vatsa, A capacitated facility location-allocation problem for designing a waste water treatment system in a production cluster
Targeted Journal: Transportation Research Part E: Logistics and Transportation Review (ABDC: A*)

WORKING PAPERS

- Manish Sarkhel, Nagarajan Krishnamurthy & Omkar D. Palsule Desai, Competitive Dynamics in Common Effluent Treatment Plants: A Game Theoretic Perspective
- Manish Sarkhel & Sonakshi Gupta Revenue Sharing and Ethical Issues in Medical Diagnostic Services

PROJECTS

Traffic Congestion at Mhow Market Area, Indore (2016)

Traffic management strategies (traffic re-routing, identifying strategic parking facilities, etc.) to ease congestion and ensure smooth traffic flow.

TEACHING

Assisted in the following 4 credit courses at IIM Indore:

- Game Theory
- Optimization

Taught the following courses at Woxsen School of Business Hyderabad:

- Introduction to Python Programming
- Developing Business Applications using Artificial Intelligence
- Data Analytics Using Python & R
- Special Course on Supply Chain Management & Analytics as a part of placement preparatory sessions for PGDM 2nd yr.
- Webinar on Data Visualization using Tableau

WORK EXPERIENCE

1. Shapoorji Pallonji Engineering and Construction, Rourkela

- Duration: 2012-2014
- *Designation: Engineer (Electrical)*
- Projects
 - Ore Bedding and Blending Plant, SAIL- RSP, Rourkela
 - National Institute of Technology, Rourkela

2. Woxsen School of Business, Hyderabad

- Duration: August 2019-till date
- Courses Taught
 - PGDM (BA. AI. ML.) 1st Yr. -Introduction to Python Programming (3 credits) ¹
 - PGDM (BA/AI/ML) 1st Yr. -Developing Business Applications Using Artificial Intelligence (2 credits) ²

¹PGDM – Business Analytics. Artificial Intelligence. Machine Learning. (BA. AI. ML.)

²PGDM – Business Analytics. Artificial Intelligence. Machine Learning. (BA. AI. ML.)

- PGDM 2nd Yr. -Data Analytics Using R & Python (3 credits) ³
- PGPXP -Data Analytics Using R & Python (3 credits) ⁴
- Special Course on Supply Chain Management & Analytics as a part of placement preparatory sessions for PGDM 2nd yr.
- Webinar on Data Visualization Using Tableau
- Administrative & Other Responsibilities
 - Setting up of Artificial Intelligence Lab
 - Programme design for PGDM – Business Analytics. Artificial Intelligence. Machine Learning. (BA. AI. ML.)
 - Programme design for BBA – Business Analytics. Artificial Intelligence. Machine Learning. (BA. AI. ML.)
 - Member of the student interview panel for new batches
 - Placement preparatory sessions & mock interviews for PGDM 2nd yr.

AWARDS

- *Best paper Award (Emerald Publishing & IIT Roorkee)*- Manish Sarkhel & Sonakshi Gupta, A New Centrality Measure for Collaborative Groups, PAN IIT International Management Conference, Nov 30 - Dec 02, 2018 at IIT Roorkee
- *Employee (faculty) of the Month (October, 2019)*- Woxsen School of Business, Hyderabad

RESEARCH INTERESTS

- Game Theory & Optimization
- Networks

CONFERENCES & WORKSHOPS

- Manish Sarkhel & Nagarajan Krishnamurthy, Stability in Core-Periphery Production Networks, 7th International Conference on Complex Networks and Their Applications, December 11-13, 2018, Cambridge University, United Kingdom
- Saurabh Chandra & Manish Sarkhel, Common effluent treatment plants locations allocation modelling in an industrial cluster, EURO 2018 Conference, July 8-11, 2018, Valencia, Spain
- Nagarajan Krishnamurthy & Manish Sarkhel, Stable networks in peer-to-peer based sharing economies, 12th European Meeting on Game Theory (SING 12), July 11-13, 2016, Odense, Denmark
- Manish Sarkhel & Soumyajyoti Datta, A New Optimization Model For Last Mile Forward And Reverse Distribution With A Heuristic Based Solution, XX Annual International Conference of Society of Operations Management 2016, December 22-24, 2016, ABV- Indian Institute of Information Technology and Management Gwalior
- Manish Sarkhel & Soumyajyoti Datta, A Mixed integer optimization model for municipal waste recycling using cross-docking, 5th Biennial INDAM Conference, 18-20 December, 2017, IIM Indore

³Post Graduate Diploma in Management (PGDM)

⁴Post Graduate Program for Experienced Professionals (PGPXP)

- Soumyajyoti Datta & Manish Sarkhel, Price competition under heterogeneous cost structure in medical diagnostic services, International Conference of Operational Research Society of India on 'Advancing Frontiers in Operational Research: Towards a Sustainable World', 21-23 December, 2017, Kolkata
- Manish Sarkhel & Nagarajan Krishnamurthy, Mutual Monitoring and Cooperation in Networks, International conference on Network Science in Economics and Finance, 19-21 December, 2018, IIM Ahmedabad
- Manish Sarkhel & Sonakshi Gupta, A New Centrality Measure for Collaborative Groups, PAN IIT International Management Conference, Nov 30-Dec 02, 2018, IIT Roorkee
- Soumyajyoti Datta, Manish Sarkhel & Tuhin Sengupta, A Game-Theoretic Perspective on Client-Contractor Relationship in Construction Industry, COSMAR 2018, Consortium of Students in Management Research, November 29-30, 2018, IISc Bangalore

SOFTWARE

Latex, Tableau, Python, R, CPLEX