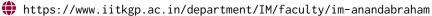
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Employment History

Dec 2024 – Present	Assistant Professor Grade I, Department of Industrial and Systems Engineer-
	ing, Indian Insitute of Technology Kharagpur.

Dec 2021 – Dec 2024 Assistant Professor Grade II, Department of Industrial and Systems Engineering, Indian Insitute of Technology Kharagpur.

June 2021 – Nov 2021 Assistant Professor Grade II, Operations and Supply Chain Area, Indian Institute of Management Jammu.

Jan 2021 – May 2021 Adhoc Faculty (Industrial Engineering), Department of Mechanical Engineering, National Institute of Technology Calicut.

Jan 2020 – July 2020 Research Associate, Department of Management Studies, Indian Institute of Science Bengaluru.

Education

2015 – 2020 Ph.D., Management Studies, Indian Institute of Science Bengaluru

Thesis title: Transboundary externalities and the river sharing problem.

Supervisor: Prof. Parthasarathy Ramachandran

2013 – 2015 MTech. Industrial Engineering and Management, National Institute of Technology Calicut

Thesis title: Metaheuristics for integrated production and distribution planning problem.

Project Supervisor: Dr. K. Ratna Kumar

2009 – 2013 **BTech. Mechanical Engineering, University of Calicut**Government Engineering College Kozhikode, University of Calicut

Research Publications

Journal Articles

- R. Maiti, B. G. Menon, and **A. Abraham**, "Ensemble empirical mode decomposition based deep learning models for forecasting river flow time series," *Expert Systems with Applications*, vol. 255, p. 124 550, 2024.
- R. B. Nair, **A. Abraham**, K. R. Kumar, and R. Sridharan, "Optimal pricing decisions of centralized dual-channel supply chains in a duopoly: A study on the influence of competition structure," *Sādhanā*, vol. 49, no. 1, p. 1, 2023.
- R. B. Nair, K. Abijith, **A. Abraham**, K. R. Kumar, and R. Sridharan, "Prices and profits in centralized dual-channel supply chains under competition," *IFAC-PapersOnLine*, vol. 55, no. 10, pp. 2366–2371, 2022.
- **A. Abraham** and P. Ramachandran, "The welfare implications of transboundary storage and dam ownership on river water trade," *Mathematical Social Sciences*, vol. 109, pp. 18–27, 2021.
- **A. Abraham** and P. Ramachandran, "A solution for the flood cost sharing problem," *Economics Letters*, vol. 189, p. 109 030, 2020.

K. R. Kumar, T. R. Ramanan, A. Abraham, and R. Sridharan, "Integrated production distribution problem in a partial backorder and order refusal environment," *International Journal of Management Concepts and Philosophy*, vol. 12, no. 3, pp. 296–311, 2019.

Conference Proceedings

- T. A. Basith, C. S. Babu, and **A. Abraham**, "Impact of wholesale price contracts in two-echelon supply chains under production disruptions," in *Proceedings of the International Conference on Industrial Engineering and Operations Management. Manila, Philippines, March 7-9, 2023, IEOM, 2023.*
- E. K. A. Thansiha, **A. Abraham**, T. A. Basith, and C. S. Babu, "Analysis of loss averse newsvendor model with supply disruption," in *POMS India International Conference Proceeding* 2022, POMS India, 2023, pp. 154–157.
- T. A. Basith, **A. Abraham**, and C. S. Babu, "Wholesale price contracts in a two echelon supply chains under workforce restrictions," in *Proceedings of the 15th annual International Conference of the Society of Operations Management*, SOM (ABstract Only), 2022.
- R. Manzoor and **A. Abraham**, "Optimal ordering and coordination in a two-echelon supply chain under disruption," in *POMS India International Conference Proceeding* 2021, POMS (Full paper available online: https://spjimr.org/spjimr-poms-india-chapter), 2022, pp. 19–37.
- K. N. Reddy and **A. Abraham**, "Academic timetabling for online executive programs with existing schedules, faculty preferences and partial precedence," in *2022 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*, IEEE, 2022, pp. 0507–0510.
- **A. Abraham**, "Axiomatic solution for the flood cost sharing problem," in *Seventeenth AIMS International Conference on Management*, AIMS (Abstract only), 2021.
- **A. Abraham** and P. Ramachandran, "A market mechanism for sharing a polluted river," in *Proceedings* of the 11th World Congress on Water Resources and Environment (EWRA 2019), EWRA (Extended Abtract), 2019, pp. 523–524.
- **A. Abraham** and P. Ramachandran, "Pollution and river water trade," in *Annual meeting of Northeastern Agricultural and Resource Economics Association (NAREA)*, NAREA (Abtract only), 2018.

Books and Chapters

- S. S. Narayan and **A. Abraham**, "Single resource capacity control model for hidden city ticketing," in Recent Advances in Logistics, Supply Chain and Transportation, Volume 2 Select Proceedings of ICLST 2024, Springer, Forthcoming, 2024.
- A. Abraham and P. Ramachandran, "Stable agreements with fixed payments on transboundary flood prone rivers," in *Contemporary Issues in Group Decision and Negotiation*, H. M. Morais D. Fang L., Ed., Lecture Notes in Business Information Processing, Springer, 2021, pp. 99–112.
- **A. Abraham** and P. Ramachandran, "Effect of pollution on transboundary river water trade," in *Group Decision and Negotiation: Behavior, Models, and Support: 19th International Conference, GDN 2019, Loughborough, UK, June 11–15, 2019, Proceedings 19, Lecture Notes in Business Information Processing, Springer, 2019, pp. 146–159.*

Graduate Project and Research Supervision

Research Supervision

2025–Present Mr. Avinandan Mukherjee. PhD Thesis title: "Management of sharing economies under competition" (Ongoing).

Graduate Project and Research Supervision (continued)

MTech Project Supervision

- 2024–2025 Mr. Sagar Borole. MTech Thesis title: "Supply chain coordination under clearance sales" (Ongoing).
 - Mr. Pritam P. Mukteshwar. MTech Thesis title: "Post harvest shipment model for agricultural products" (Ongoing).
- 2023–2024 Mr. Nachiket D Vyawahare. MTech Thesis title: "Optimizing Surface Water Allocation from KRS Dam: Assessing Impacts on Agriculture and Domestic Sectors".
- Mr. Manish Bhati. Thesis title: "Enhancing Revenue Management System through Cancellation Prediction and Pricing Decisions".

Scholarly activities

Awards and Achievements

- Merit paper award. Paper titled Clearance Sale Models under Competition co-authored with Mr. S.Sai Narayan (Dual Degree student, 2024 batch) received merit paper award in the International Conference on Emerging Trends in Business Analytics and Management Sciences held at SJMSOM,IIT Bombay form Dec 12-14, 2024.
- Best paper award. Paper titled Single Resoruce Capacity Control Model for Hidden City Ticketing co-authored with Mr. S.Sai Narayan (Dual Degree student, 2024 batch) received best paper award in the International Conference on Logistics, Supply Chain and Transportation held at NIT Calicut form May 22-24, 2024.
- Indian Economic Association Award. Awarded for best PhD Thesis at IISc Convocation 2024.
- **Certificate of Excellence.** Awarded by University of Calicut for being in the top 5% of candidates in Mechanical Engineering.