

Sushil Punia

Email: s.punia.official@gmail.com

EXPERIENCE

Assistant Professor **2021-26**
Indian Institute of Technology (IIT), Kharagpur-721302, India.

EDUCATION

Ph.D. **November 2020**
Indian Institute of Technology Delhi, India

Master of Technology, Industrial & Management Engineering **May 2016**
Indian Institute of Technology Kanpur, India

Bachelor of Technology, Industrial Engineering & Management **June 2013**
National Institute of Technology Kurukshetra, India

SELECTED AWARDS/ACHIEVEMENTS/FELLOWSHIPS

- EURO 2023 Award for Best ‘Theory and Methodology’ EJOR Paper 2023
- Springer Nature’s Best Paper Award at XXIII Annual International SOM Conference 2019
- Sumant Moolgaonkar Research Fellowship, MoUD (GOI) and IIT Delhi 2018
- Emerald Literati Award, UK 2018
- Received a Post-doctoral position at the University of Cambridge (UK) (didn’t join) 2021
- Co-author of one of the Most Cited and Downloaded Articles in the EJOR journal 2020-23
- Research Travel Awards 2017, 2018
- Institute Fellowship (Senior Research Fellowship) for Ph.D. 07/2018 – 10/2020
- Institute Fellowship (Junior Research Fellowship) for Ph.D. 07/2016 – 06/2018
- Institute Scholarship (through MHRD, GOI) for M.Tech 2014 – 2016
- All India Rank 56 in National Level Graduate Engineering Test (GATE-P&IE) 2014

PUBLICATIONS & INTERNATIONAL CONFERENCES

15 Q1 journal publications in the past 05 years, of which 3 A*, 9 A as per ABDC journal rankings.

List of selected peer-reviewed journal Publications:

- **Punia, S.** (2025). Medium- to Long-Term Demand Forecasting in Retail and Manufacturing Organizations: Integration of Machine Learning, Human Judgment, and Interval Variable. **Journal of Forecasting**, 45(1), 122–134. <https://doi.org/10.1002/for.70030>
- Sarode, A. R., Rani, M. V., Das, B., S, U., & **Punia, S.** (2025). An AI-Based Framework for Interpretable Mental Health Literacy Segmentation and Decision Support. **IEEE Journal of Biomedical and Health Informatics**, 29(12), 8799–8806.
- Sanguri, K., Patra, S., & **Punia, S.** (2023). Forecast reconciliation in the temporal hierarchy: Special case of intermittent demand with obsolescence. **Expert Systems with Applications**, 218, 119566.

- **Punia, S.,** & Shankar, S. (2022). Predictive analytics for demand forecasting: a deep learning-based decision support system. **Knowledge-Based Systems**, 258, 109956.
- Sanguri, K., Shankar, S., **Punia, S.,** & Patra, S. (2022). Hierarchical container throughput forecasting: The value of coherent forecasts in the management of ports operations. **Computers & Industrial Engineering**, 173, 108651.
- Nikolopoulos, K., **Punia, S.,** Schafers, A., Tsinopoulos, C., & Vasilakis, C. (2021). Forecasting and planning during a pandemic: COVID-19 growth rates, supply chain disruptions, and governmental decisions. **European Journal of Operational Research**, 290(1), 99-115.
- **Punia, S.,** Singh, S., & Madaan, J. (2020). From predictive to prescriptive analytics: A data-driven multi-item newsvendor model. **Decision Support Systems**, 136, 113340.
- **Punia, S.,** Singh, S. P., & Madaan, J. (2020). A cross-temporal hierarchical framework and deep learning for supply chain forecasting. **Computers & Industrial Engineering**, 149, 106796.

Selected International/National Conference Presentations:

- **Punia, S.** (2024). Passenger Flow Prediction in Urban Public Transit Systems for Effective Operations Management. **44th International Symposium on Forecasting**, Dijon, France.
- **Punia, S.,** Singh, S. P., & Madaan, J. K. (2019). Cross-temporal forecasting framework for supply chain forecasting. XXIII Annual International Conference of the Society of Operations Management (SOM 2019), IIT Kanpur, India. **(Received Springer's best paper award)**

RESEARCH PROJECTS

- Designing Vaccine allocation mechanisms in a multi-level planning system (ICSSR Major Research Project, 2023-25), Role: PI
- Ridership Forecasting for Effective Operations Management in Urban Public Transit Systems (FSRG – IIT Kharagpur, 2023-25), Role: PI

SELECTED SPONSORED MDP COURSES

- MDP For Assistant Directors of ESIC
Role: Co-coordinator, Duration: (20-01-2024 to 15-01-2024)
- Training Program for ESIC Officers
Role: Co-coordinator, Duration: (14-10-2023 to 09-10-2023)
- Project Saksham - Leadership Competencies for IOCL Senior Managers
Role: Co-coordinator, Duration: (23-09-2023 to 18-09-2023)

Sd/-

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