

# TANMOY KUNDU, Ph.D.

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Faculty, OM&QT Area

IIM Indore



## 1. EDUCATION

<b>Doctorate</b>	Doctor of Philosophy (Ph.D.), 2015-2019 Dept. of Business Administration, National Taiwan University, Taipei, Taiwan
<b>Post-Graduation</b>	Master of Engineering (M.E.), 2011-2013 Dept. of Production Engineering, Jadavpur University, Kolkata, India
<b>Graduation</b>	Bachelor of Engineering (B.E.), Mechanical, 2007-2011 Chhattisgarh Swami Vivekananda Technical University, Bhilai, India

## 2. ACADEMIC WORK EXPERIENCE

Sl. No.	University/ Institution	Position	From	To	Area
1.	Indian Institute of Management Indore	Visiting Assistant Professor	01/07/2024	Till Date	OM&QT
2.	International Management Institute New Delhi	Assistant Professor	07/06/2023	28/06/2024	OM&QT
3.	Indian Institute of Technology Jodhpur	Assistant Professor	05/04/2022	31/05/2023	OM
4.	National University of Singapore	PDF	14/09/2020	04/04/2022	Logistics & Transportation
5.	Indian Institute of Management Bodhgaya	Assistant Professor	25/11/2019	10/07/2020	OM&QT
6.	National Taiwan University	PDF	01/08/2019	29/10/2019	Logistics & Transportation

## 3. ENTREPRENEURIAL EXPERIENCE

Sl. No.	Organisation	Position	From	To	Responsibilities
1.	DrBisha Cosmetics LLP	Co-founder	01/11/2022	Till date	Mentorship
2.	RoadExpress Pvt. Ltd., Patna, India	Advisory Board Member	30/01/2021	Till date	Mentorship
3.	OM Share Charging, NTU Garage	Co-founder	01/09/2016	29/10/2019	Logistics Management
4.	Systron Technologies Pvt. Ltd.	Co-founder & Director	19/06/2014	12/06/2015	Business Operations

## 4. RESEARCH

Research Interests
<ol style="list-style-type: none"><li>1. E-Commerce Logistics</li><li>2. International Logistics</li><li>3. Intelligent Logistics (Human-Robot Collaboration)</li><li>4. Humanitarian Logistics</li><li>5. Transportation Network Vulnerability</li></ol>

6. Multi-modal Transportation Systems & Policy Design
7. Blockchain in Supply Chains (Luxury Supply Chain)
8. Digital Platform Operations

## 5. PUBLICATIONS

### Selected peer reviewed journal articles with major/lead contribution & supervision

1. Sheu, J-B., Kumar, S., **Kundu, T.**, 2024. Will Too Many Cooks (Robots) Spoil the Broth (Order Fulfillment)? Navigating Priority Orders in Warehousing Operations of E-Commerce Supply Chains. *IEEE Transactions on Engineering Management*, 71, 6063 – 6077. <https://doi.org/10.1109/TEM.2024.3375499> (ABDC-A) - **Supervising second author (Ph.D. student)**
2. De, A., Ray, A., **Kundu, T\***, Sheu, J-B., 2023. Is it wise to compete or to collaborate? Remanufacturing business models under collective extended producer responsibility legislation. *Transportation Research Part E: Logistics and Transportation Review*, 179, 103294. <https://doi.org/10.1016/j.tre.2023.103294> (ABDC-A\*) - **Supervision**
3. De, A., **Kundu, T.**, Sheu, J-B\*, Choi, T.M., 2023. Sailing smoothly under Sulphur fuel regulations: The shipping liner's bunkering problem. *Transportation Research Part D: Transport and Environment*, 121, 103838. <https://doi.org/10.1016/j.tre.2022.102909> (ABDC-A) - **Contributed equally as the first author**
4. Kumar, S., Sheu, J-B., **Kundu, T.**, 2023. Planning a parts-to-picker order picking system with consideration of the impact of perceived workload. *Transportation Research Part E: Logistics and Transportation Review*. <https://doi.org/10.1016/j.tre.2023.103088> (ABDC-A\*) - **Supervising first author (Ph.D. student)**
5. Zhou, Y., **Kundu, T\***, Goh, M., Sheu, J-B., 2023. Beyond throughput: Incorporating air transport network topology in airport performance measurement. *Journal of Air Transport Management*, 112, 102458. <https://doi.org/10.1016/j.jairtraman.2023.102458> (ABDC- B / SCI Q1) - **Contributed equally as the first author**
6. **Kundu, T.**, Sheu, J-B., Kuo, H. T., 2022. Emergency Logistics Management—Review and Propositions for Future Research. *Transportation Research Part E: Logistics and Transportation Review*, 164, 102789. <https://doi.org/10.1016/j.tre.2022.102789> (ABDC-A\*)
7. Timperio, G., **Kundu, T.**, Klumpp, M., de Souza, R., Loh, X. H., Goh, K., 2022. Beneficiary-centric decision support framework for enhanced resource coordination in humanitarian logistics: A case study from ASEAN. *Transportation Research Part E: Logistics and Transportation Review*, 167, 102909. <https://doi.org/10.1016/j.tre.2022.102909> (ABDC-A\*) - **Supervising first author (Ph.D. student)**
8. Sheu, J-B., **Kundu, T.**, Choi, T.M., 2021. International sustainable supply chain collaboration under bilateral governments' policy intervention. *IEEE Transactions on Engineering Management*. <https://doi.org/10.1109/TEM.2021.3108975> (ABDC-A) - **Major/lead contribution**
9. Zhou, Y.M., **Kundu, T\***, Qin, W., Goh, M., Sheu, J-B. 2021. Vulnerability of Worldwide Air Transportation Network to Pandemics. *Transportation Research Part E: Logistics and Transportation Review*. 154, 102469. <https://doi.org/10.1016/j.tre.2021.102469> (ABDC-A\*) - **Contributed equally as the first author**
10. Li, S., Zhou, Y.M., **Kundu, T.**, Sheu, J.B., 2021. Spatiotemporal variation of the worldwide air transportation network induced by COVID-19 pandemic in 2020. *Transport Policy*. 111, 168-184. <https://doi.org/10.1016/j.tranpol.2021.08.001> (ABDC-A) - **Supervising first author (Ph.D. student)**
11. Zhou, Y., **Kundu, T\***, Goh, M., Sheu, J. B. 2021. Multimodal transportation network centrality analysis for Belt and Road Initiative. *Transportation Research Part E: Logistics and Transportation Review*. 149, 102292. <https://doi.org/10.1016/j.tre.2021.102292> (ABDC-A\*) - **Contributed equally as the first author**
12. **Kundu, T\***, Sheu, J. B. 2019. Analyzing the effect of government subsidy on shippers' mode switching behavior in the Belt and Road strategic context. *Transportation Research Part E: Logistics and Transportation Review*. 129, 175-202. <https://doi.org/10.1016/j.tre.2019.08.007> (ABDC-A\*)

13. **Kundu, T.**, Sheu, J. B\*. 2019. Analysing the effect of government policy intervention on cross-border freight transportation flows: The Belt and Road perspective. *Transportmetrica A: Transport Science*. 15:2, 1360-1381. <https://doi.org/10.1080/23249935.2019.1594448> (ABDC- B / SCI Q1)
14. Sheu, J. B., **Kundu, T\***. 2018. Forecasting time-varying logistics distribution flows in the One Belt-One Road strategic context. *Transportation Research Part E: Logistics and Transportation Review*. 117, 5–22. <https://doi.org/10.1016/J.TRE.2017.03.003> (ABDC-A\*) - Major/lead contribution

#### Peer Reviewed Conference Proceedings

1. Yang, Y., Zhou, Y., **Kundu, T.**, Xu, S. 2021. Dynamic Vehicle Routing for Battery Swapping in an Electric Bike-sharing System. *2021 IEEE International Conference on Industrial Engineering and Engineering Management*, Singapore, Singapore, 2021, pp. 678-682, doi: 10.1109/IEEM50564.2021.9672818 (Received Best Paper Award).

#### Peer Reviewed Paper Presentations

1. Varshney, U., **Kundu, T.**, Karamchandani, A., Kapoor, R. Combating Luxury Counterfeits with Blockchain Solution. *2023 POMS International Conference*, Paris, France.
2. Kumar, S., **Kundu, T.**, Sheu, J.B. Is It Wise to Increase the Number of Robots in Parts-To-Picker Warehouse? *2023 POMS International Conference*, Paris, France.
3. Varshney, U., **Kundu, T.**, Karamchandani, A., Kapoor, R. 2022. Can blockchain save luxury brands from counterfeits? *25th Annual International Conference of the Society of Operations Management*, Indian Institute of Management Indore, India.
4. Sheu, J.B., Pan, C., **Kundu, T.**, Chen, M.C. 2019. Self-adaptive response system (SARS) for emergency logistics and transportation management. *World Conference on Transport Research*, Indian Institute of Bombay, Mumbai, India.
5. **Kundu, T.**, Sheu, J.B. 2018 Dynamic Subsidy-pricing Models for Multi-modal Transportation Integration: The One Belt-one Road Strategic Context. *Inform's Annual Meeting* 2018, Phoenix, AZ, USA.
6. Sheu, J.B., **Kundu, T.** 2018. Locating strategic hubs for maximizing logistics and transportation efficiency using spatial-temporal logistics interaction model (Invited for Presentation at *Inform's International Conference*, Taipei, June-2018).
7. Sheu, J.B., **Kundu, T.** 2017. Redesigning sustainable value chain using Game Theory based power interaction model in the one belt-one road strategic context. *Sympo-2017*, HKUST, Hong Kong.
8. **Kundu, T.**, J.B., Sheu. 2017. Transnational green supply chain collaboration under cross-governmental political influence in the one belt-one road strategic context. *Manufacturing & Service Operations Management Conference-2017*, University of North Carolina, USA.
9. **Kundu, T.**, J.B., Sheu. 2016. Forecasting time-varying logistics distribution flows in the One Belt-One Road strategic context. *OBOR-2016 Conference*, RMIT University, Melbourne, Australia. (Received Best Paper Award).

## 6. OTHER RESEARCH RELATED ACTIVITIES

#### Editorial Activities

1. Guest Editor for a Special Issue on “**Intelligent Disaster Management: Integrated Emergency Logistics and Operations Systems**” in in *Transportation Research Part E: Logistics and Transportation Review* (ABDC-A\*). 2023.

#### Seminars / Talks

1. Futuristic Logistics: AI & Robotics in Supply Chain Management. 2023. (Invited talk- Nominated by IIT Jodhpur). War Centre, Konark Army Cantt, Ratanada, Jodhpur, India

2. International Logistics & Freight Transportation Reconfiguration under PM Gati Shakti Initiative Scheme. 2023. NITTTR Bhopal, India.
3. Lecture on Logistics & Freight Transportation under PM Gati Shakti Initiative Scheme. 2023. IIT (BHU) Varanasi, India.
4. Changing landscape of ecommerce logistics. 2023. (Keynote speaker). 1<sup>st</sup> International Conference on Advanced Optimization Techniques and Applications (AOTA - 2023).
5. The Future of last-mile e-commerce deliveries. 2021. (Invited talk). National Tsing Hua University, Hsinchu, Taiwan.
6. Logistics Management in the One Belt-One Road context. 2018. (Invited talk). South West Jiao Tong University, Chengdu, Sichuan, China.

#### **Conference Committees and Organising Responsibilities**

1. Co-Convenor-Management Doctoral Colloquium-2023, School of Management & Entrepreneurship, IIT Jodhpur.
2. Volunteered Informs International Conference Taipei, Taiwan (2018/06).
3. Team member of International Conference on Service Science and Innovation, National Taiwan University, Taipei, Taiwan (2016/06).
4. Volunteered 4<sup>th</sup> International & 25<sup>th</sup> All India Manufacturing Technology, Design and Research Conference (AIMTDR 2012), Jadavpur University, Kolkata, India (2012/12).

### **7. EXECUTIVE EDUCATION**

#### **Programs Conducted**

1. Customized certificate program on Supply Chain Management for NTPC executives by IIT Delhi (Session Instructor on Public Procurement, Warehousing & Transportation)- July-August, 2022.
2. Executive Lecture on Game Theory for Senior Management, DS Group, India – 2020- IIM Bodhgaya-Session Lead.
3. 3rd Technical education quality improvement program (TEQIP) at IIM Bodhgaya (FDP) – 2020- Program Co-director & Session Instructor

### **8. CONSULTING**

#### **Projects Completed**

1. Conceptualization of Defence Logistics Consortium Model. Konark Corps, Army Southern Command, Jodhpur. (May, 2023-Sept, 2023) – Project Lead / Member.
2. Logistics Improvement Opportunities through Advanced Modelling and Analytics in Singapore Post (2020-2021)- The Logistics Institute-Asia Pacific, National University of Singapore - Project Lead.
3. Mitigating Risks in Temperature-controlled Supply Chains Using Blockchain Technology. 2nd Singapore-Germany Academic-Industry (2+2) International Collaboration Grant (2020-2022)- The Logistics Institute-Asia Pacific, National University of Singapore- Project Lead.

### **9. AWARDS AND FELLOWSHIPS**

1. Ph.D. Thesis writing grant (2018-2019) from the Ministry of Science and Technology (MOST) of Taiwan.
2. Fellowship for the Outstanding International Doctoral Student (2015-2018) from National Taiwan University, Taipei, Taiwan.

3. Second place team in the Hult Prize Competition, National Taiwan University, Taipei, Taiwan (2017/12).
4. First prize for Competition for Entrepreneurship of Sustainability (CES-2017) at National Chengchi University, Taiwan (2017/02).
5. Sinyi School Sustainability for Wellbeing award (Sustainable Business Plan Competition) (2017/02).
6. Best paper award at the OBOR-2016 conference held at RMIT University, Melbourne, Australia (2016/12).
7. Postgraduate (GATE) fellowship from MHRD, Government of India, Jadavpur University (2011/08-2013/05).