

Curriculum Vitae (CV)

Dr. Dharendra Prajapati

Postdoctoral Fellow in the Department of Quantitative Methods and Operations Management, Indian Institute of Management, Amritsar, Panjab, India.



Researcher IDs Links:

Google Scholar: <https://scholar.google.com/citations?user=-bTw758AAAAJ&hl=en&oi=ao>

Web of Science Researcher ID: <https://www.webofscience.com/wos/author/record/AGH-5312-2022>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57215023349>

Vidwan ID: **321770** Profile Score: **8.3** out of **10**

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DOB: July 1, 1991; Nationality: Indian

EDUCATIONAL QUALIFICATION

Degree	Specialization	Institute / University	Years	CGPA/CPI	Class
PhD	Mechanical Engineering (Industrial Eng. Mgmt.)	Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, India (Fully Funded by Govt. of India)	2018-2023	9.0	1 st
M. Tech	Mechanical Engineering (Manufacturing)	Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, India (Fully Funded by Govt. of India)	2016-2018	7.2	1 st
BE	Mechanical Engineering	SITM Bhopal / Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal, India	2010-2014	7.89	1 st

RESEARCH AND TEACHING INTERESTS

Research Interests: Supply Chain Network Design and Modeling, Operations Research, E-commerce, Transportation, Logistics Systems, CLSC, Reverse Logistics, Leveraging Blockchain, IoT, AI and ML in Supply Chain Design, Sustainability, Circular Economy, and Optimization.

Thesis Title: Decision Support Systems for Sustainable E-Commerce Logistics and Supply Chain Operations

PROFESSIONAL EXPERIENCE

1. Designation: Assistant Professor in the Department of Industrial and Production Engineering, Shri. G.S. Institute of Technology and Science (SGSITS), Indore (MP), India, (State Government Added Autonomous).

Date of Joining: 23/08/2022

Date of Leaving: 19/02/2024

Activities: Teaching, Research, Mentoring, NAAC work, student induction program

Reason for Leaving: Unforeseen family health issue

2. Designation: Postdoctoral Fellow in the Department of Management Science and Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE.

Date of Joining: 21/02/2024

Date of Leaving: 30/04/2024

Activities: Research Work on a project entitled “Leveraging emerging technologies such as IoT, Blockchain, ML, and AI in healthcare data management.”

Reason for Leaving: Unforeseen family health issue

Publication's summary

Journals:	No. of SCI/SCIE/SSCI: 8	No. of ESCI/Scopus: 4	No. of other peer-reviewed journals: 1
Conferences & Book Chapters (BCs):	No. of Conferences: 8	No. of Scopus: 5	
Citations Google, WoS, & Scopus: 414, 201, & 259		H-Index Google, WoS, & Scopus: 11, 8, & 10	

PUBLICATIONS

Journal papers

- **Dhirendra Prajapati**, Saurabh Pratap, Mengdi Zhang, Lakshay & George Q Haung (2022). “Sustainable forward-reverse logistics for multi-product delivery and pickup in B2C E-commerce towards the circular economy”. *International Journal of Production Economics*, Elsevier, Vol. 253 Issue No. 0, pages 108606. (<https://doi.org/10.1016/j.ijpe.2022.108606>). (Indexing: **SCIE**, IF: **9.8**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **3***)
- **Dhirendra Prajapati**, Sunil Kumar Jauhar, Angappa Gunasekaran, Sachin S. Kamble & Saurabh Pratap (2022). “Blockchain and IoT Embedded Sustainable Virtual Closed-Loop Supply Chain in E-commerce Towards the Circular Economy”. *Computers & Industrial Engineering*, Elsevier, Vol. 172 Part A, pages 108530. (<https://doi.org/10.1016/j.cie.2022.108530>). (Indexing: **SCI**, IF: **6.7**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **3***)
- **Dhirendra Prajapati**, Felix T.S. Chan, Yash Daultani, & Saurabh Pratap (2022). “Sustainable Vehicle Routing of Agro-Food Grains in E-commerce Industry.” *International Journal of Production Research*, Taylor & Francis, Vol. 60 Issue No. 24, pages 7319-7344. (<https://doi.org/10.1080/00207543.2022.2034192>). (Indexing: **SCI**, IF: **9.2**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **3***)
- **Dhirendra Prajapati**, Felix T.S. Chan, H. Chelladurai, Lakshay Lakshay, and Saurabh Pratap (2022). “An Internet of Things Embedded Sustainable Supply Chain Management of B2B E-commerce”, *Sustainability*, MDPI, Vol. 14 Issue No. 9, pages 5066. (<https://doi.org/10.3390/su14095066>). (Indexing: **SCIE**, IF: **3.9**, SCImago Journal Rank: **Q1**)
- **Dhirendra Prajapati**, H. Chelladurai, Fuli Zhou, Andrew W. H. Ip, & Saurabh Pratap (2022). “Sustainable Multi-products Delivery Routing Network Design for Two-echelon Supplier Selection Problem in B2B E-commerce Platforms”. *RAIRO- Operations Research*, EDP Sciences. Vol. 56 Issue No. 4, pages 2115-2137. (<https://doi.org/10.1051/ro/2022072>). (Indexing: **SCIE**, IF: **1.8**, SCImago Journal Rank: **Q2**)
- **Dhirendra Prajapati**, Fuli Zhou, Ashish Dwivedi, Tripti Singh, Lakshay Lakshay & Saurabh Pratap (2022). “Sustainable Agro-Food Grains Supply Chain with Innovative Packaging in E-commerce Towards the Circular Economy.” *Sustainability*, MDPI, Vol. 15 Issue No. 4, pages 8698. (<https://doi.org/10.3390/su14148698>). (Indexing: **SCIE**, IF: **3.9**, SCImago Journal Rank: **Q1**)

- Yash Daultani, Naoufel Cheikhrouhou, Saurabh Pratap, *Dhirendra Prajapati*. (2022) “Forward and Reverse Supply Chain Network Design for New and Refurbished Products in E-commerce Logistics.” *Operations and Supply Chain Management*, OSCM, Vol. 14 Issue No. 14, pages 540-550. (<http://doi.org/10.31387/oscm0510365>). (Indexing: **ESCI**, **Scopus**, Scimago Journal Rank: **Q2**, ABDC Ranking: **C**)
- *Dhirendra Prajapati*, Fuli Zhou, Mengdi Zhang, H. Chelladurai, & Saurabh Pratap. (2021) “Sustainable Logistics Network Design for Multi-products Delivery Operations in B2B E-commerce Platform”. *Sadhana: Indian Academy of Sciences*, Springer, Vol. 46 Issue No. 100, pages 1-13. (<https://doi.org/10.1007/s12046-021-01624-1>). (Indexing: **SCIE**, **IF: 1.4**, SCImago Journal Rank: **Q2**)
- *Dhirendra Prajapati*, Manoj M Kumar, H. Chelladurai, Saurabh Pratap, & MD Zuhair (2021). “Sustainable Logistics Network Design for Delivery Operations with Time Horizons in B2B E-commerce Platform”. *Logistics*, MDPI, Vol. 5 Issue No. 3, pages 61. (<https://doi.org/10.3390/logistics5030061>). (Indexing: **ESCI**, **IF: 3.6**)
- *Dhirendra Prajapati*, Yash Daultani, Harpreet Singh, & Saurabh Pratap. (2020) “A Clustering Based Routing Heuristic for E-commerce Fresh Food Last-Mile Logistics Operations”, *Global Business Review*, SAGE, Vol. 24 Issue No. 1, Pages 0972150919889797. (<https://doi.org/10.1177%2F0972150919889797>). (Indexing: **ESCI**, **Scopus**, **IF: 2.4**, Scimago Journal Rank: **Q2**, ABDC Ranking: **C**, **ABS: 1***)
- Mengdi Zhang, Saurabh Pratap, Zhiheng Zhao, *Dhirendra Prajapati*, & George Q Huang. (2020). “Forward and reverse logistics vehicle routing problems with time horizons in B2C e-commerce logistics”. *International Journal of Production Research*, Taylor & Francis, Vol. 59 Issue No. 20, pages 6291-6310. (<https://doi.org/10.1080/00207543.2020.1812749>). (Indexing: **SCI**, **IF: 9.018**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, **ABS: 3***)
- *Dhirendra Prajapati*, Yash Daultani, Naoufel Cheikhrouhou, & Saurabh Pratap. (2020). “Identification and ranking of key factors impacting the efficiency of Indian shipping logistics sector,” *OPSEARCH*, Springer, Vol. 57 Issue No. 0, pages 765-786. (<https://doi.org/10.1007/s12597-020-00442-z>). (Indexing: **ESCI**, **Scopus**, **IF: 1.6**, SCImago Journal Rank: **Q2**, ABDC Ranking: **C**, **ABS: 1***)
- Ashish Dwivedi, Ajay Jha, *Dhirendra Prajapati*, Nenavath Sreenu, & Saurabh Pratap. (2020). “Meta-heuristic algorithms for solving the sustainable agro-food grain supply chain network design problem,” *Modern Supply Chain Research and Applications*, Emerald, Vol. 2, Issue No. 3, pages 161-177. (<https://doi.org/10.1108/MSCRA-04-2020-0007>). (FMS Rank: **C**)

Conference papers

- *Dhirendra Prajapati* and Praveer Agrawal (2023). An IoT-embedded smart, sustainable reverse logistics system towards the circular economy, Proceedings of *9th International and 30th All India Manufacturing Technology, Design & Research (AIMTDR 2023) Conference*, IIT (BHU), Varanasi, India. (*Accepted for publication in Conference Proceeding*) (Indexing: **Scopus**)
- *Dhirendra Prajapati*, Kumar Rohit, Ayush Maurya, & Ashish Dwivedi. (2023). “Metaheuristic and Exact Approaches for Cost Optimization in Multi-Echelon Multimodal Transportation Network” *“Lectures Notes in Network and Systems”* Springer through “*12th International Conference on Soft Computing for Problem Solving (SocProS 2023) Moving Towards Society 5.0*”, IIT Roorkee, India. (Indexing: **Scopus**)

- **Dhirendra Prajapati**, Rajeev Agarwal, H. Chelladurai, Lakshay Lakshay, and Saurabh Pratap. (2021). “Develop a Framework for Sustainable supply Chain problem for Textile industry: In B2B E-commerce Platform”, *International Conference on Industrial Engineering Management (ICIEM-2021)*, MNIT, Jaipur, India. (**Awarded by best paper presentation**). (Indexing: **Scopus**)
- **Dhirendra Prajapati**, Arjun R Harish, Saurabh Pratap, Mengdi Zhang, & Yash Daultani. (2020). “Multi-cyclic scheduling of identical parts in an N-machine no-wait robotic cell,” Proceedings of *the International Conference on Industrial Engineering and Operations Management (IEOM)* Dubai, UAE. (Indexing: **Scopus**)
- Yash Daultani, Naoufel Cheikhrouhou, Saurabh Pratap, & **Dhirendra Prajapati**. (2019). “Designing Forward and Reverse Supply Chain Network for Refurbished Products” Proceedings of *the 9th International Conference on Operations and Supply Chain Management (OSCM)*, Vietnam. (Indexing: **Scopus**)
- **Dhirendra Prajapati**, & Saurabh Pratap. (2019). “Minimization of Time Window for Delivery of Orders in B2B E-commerce”, Proceedings of *5th International Conference on Industrial Engineering (ICIE-2019)*, SV NIT, Surat, India.
- Manoj M Kumar, **Dhirendra Prajapati**, Prabal Pratap, Fuli Zhou, & Saurabh Pratap. (2019). “Berth and Quay Crane Allocation Problem for the Container Handling,” *5th International Conference on Industrial Engineering (ICIE-2019)*, SV NIT, Surat, India.
- **Dhirendra Prajapati**, Ajay Jha, Nenavath Sreenu, & Saurabh Pratap. (2019). “An MINLP Approach: Sustainable Agro-Food Supply Chain Network Design in Indian Context,” *6th Agro-Horticulture Supply Chain Conference (AHSCC)*, UPES, Dehradun, India. (**Awarded by best paper presentation**).

Papers under review

- **Dhirendra Prajapati**, Sunil Kumar Jauhar, Ashish Dwivedi, Sanjoy Poul, & Saurabh Pratap. “A quantitative model for circularity and sustainability in e-commerce closed-loop supply chain.” *Journal of Cleaner Production*. (Indexing: **SSCI**, IF: **13.4**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **2***)
- **Dhirendra Prajapati**, Ayush Maurya, Felix T.S. Chan, & Saurabh Pratap. “Develop Mathematical and Data-Driven Models for Multi-Objective Problem of Sustainable B2B E-Commerce Platform.” *International Journal of Production Research*. (Indexing: **SCIE**, IF: **9.2**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **3***)
- **Dhirendra Prajapati et al.** “Identifying and Prioritizing the Factors Using DEMETAL: An Implementation of Blockchain Technology in Healthcare Supply Chain.” *Transportation Research Part D: Transport and Environment*. (Indexing: **SCIE**, IF: **7.6**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**)
- **Dhirendra Prajapati**. “Industry 4.0: Sustainable Reverse-Forward Logistics for the Recovery Used Electronic Products Towards the Circular Economy”, *International Journal of Production Economics*. (Indexing: **SCIE**, IF: **12**, SCImago Journal Rank: **Q1**, ABDC Ranking: **A**, ABS: **3***)

Working papers

- **Dhirendra Prajapati's** “Cost-Efficient Sustainable Reverse-Forward Logistics Constructed with Blockchain and IoT: Recovery of Used Electronic Products in Circular Economy Perspective” will be submitted to the *International*

Journal of Production Economics. (Indexing: SCIE, IF: 12, SCImago Journal Rank: Q1, ABDC Ranking: A, ABS: 3*)

- *Dhirendra Prajapati*. Considering Blockchain and IoT related Factors in Sustainable multi-echelon supply chain network with multimode of transport for B2B e-commerce industry” *Transportation Research Part E: Logistics and Transportation Review*. (about to submit)

AWARDS & ACHIEVEMENTS

- Received a **Postdoctoral fellowship** at Khalifa University Science and Technology, Abu Dhabi, UAE, in 2024.
- Awarded with **Best PhD Thesis Award 2023** at “**12th International Conference on Soft Computing for Problem Solving (SocProS 2023) Moving Towards Society 5.0**”, held at Indian Institute of Technology (IIT) Roorkee, India, during 11th – 13th August 2023.
- Awarded with **Best Paper Presentation** at “**the International Conference on Industrial Engineering and Management, ICIEM-2021**, MNIT, Jaipur, India” from 17th -19th December 2021.
- Awarded with **Best Paper Presentation** at “**6th Agro-Horticulture Supply Chain Conference**, UPES, Dehradun, India” on 4th & 5th October 2019.
- Awarded **Fellowship for Training of Young Scientist** of M.P. Council of Science and Technology on **35th M.P. Young Scientist Congress** (28th & 29th February 2020).
- Scholarship awarded by MHRD (Indian Govt.) in Aug 2018 (for Ph.D. Program).
- **Consolation Award** in an essay writing competition on “**Advent of Artificial Intelligence**” during Hindi Fortnight, organized at IIITDM Jabalpur from 14th -28th November 2019.
- Secured the **First Position in a Poster Presentation** on “**Integrity- A way of life**” during **Vigilance Awareness Week 2019**, organized at IIITDM Jabalpur from 28th October to 2nd November 2019.

SKILLS

Software proficiency

- LINGO, MATLAB, MINITAB, MS Office Package

ACTIVITIES

Workshops/Short Term Course attended

- Online short-term course on “**Data Analytics and Predictive Techniques for Multi-Modal Transportation Systems (MTS)**” organized by I-DAPT Hub Foundation IIT(BHU), Varanasi, India, from 26th - 30th June 2023.
- Online short-term course on “**Improvement Strategies for Urban Freight Transportation System (FTS)**” organized by I-DAPT Hub Foundation IIT(BHU), Varanasi, India, from 28th Feb - 4th March 2023.
- Two-week online Faculty Development Programme on “**IoT & Applications (Smart Systems)**” jointly organized by Electronics & ICT Academies at IIT Guwahati, NIT Patna, IIT Kanpur, MNIT Jaipur, IIT Roorkee, and IIITDM Jabalpur, during 14th - 25th February 2022.
- Online short-term course on “**Data Analytics and Predictive Techniques for Urban**

	<p><i>Freight Transportation System (FTS)</i>” organized by I-DAPT Hub Foundation IIT(BHU), Varanasi, India, from 10th - 14th November 2021.</p> <ul style="list-style-type: none"> ▪ Global Online Certification Course on <i>“Business and Operations Analytics”</i> by Prof. David Simchi-Levi (MIT, USA) & Prof. Manoj K. Tiwari (Director, NITIE), held at NITIE Mumbai, India, duration: 3rd July – 5th September 2021. ▪ Online short-term course on <i>“Data Analytics and Predictive Technologies”</i> course organized by I-DAPT Hub Foundation, IIT(BHU), Varanasi, India, from 05th - 10th July 2021. ▪ Online Faculty Development Programme on <i>“Evolution of Intelligent Systems”</i> organized by the Institute For Engineering Research and Publication (IFERP) on May 11, 2022. ▪ Short-term course on <i>“Earth Observation for Carbon Cycle Studies”</i> conducted by IIRS-ISRO, Department of Space, Govt. of India, from 21st – 25th June 2021. ▪ Design Workshop (DeW 7.0) at IIITDM Jabalpur on <i>“Application of Artificial Intelligence and IoT in Smart Systems”</i> held on 13th -15th February 2020. ▪ Gian course on <i>“Production Logistics: Theoretical and Practical Approach to the Theory of Constraints”</i> from 1st - 8th September 2018, organized by IIITDM Jabalpur. ▪ <i>National Symposium on Mathematical Sciences and Applications (NSMSA-2019)</i> on the Occasion of National Mathematics Day (132nd Birth Anniversary of Srinivasa Ramanujan) held on 22nd - 23rd December 2019. ▪ Design workshop (DeW) 2016 at IIITDM Jabalpur, on <i>“Internet of Process Centric Design and Manufacture,”</i> held on 12th -14th December 2016.
Team Leader	<ul style="list-style-type: none"> ▪ Played the role of team leader in my research team.
Academic/Administrative Responsibility till PhD	<ul style="list-style-type: none"> ▪ Worked as a volunteer in <i>National Innovation Drive-2017</i> under the Ministry of Human Resource Development, Government of India on 10th - 11th November 2017. ▪ Worked as a teaching assistant (TA) from July 2016 to July 2022 during M-Tech and PhD durations at IIITDM Jabalpur.
Editorial Board	<p>Reviewer Activities</p> <ul style="list-style-type: none"> ▪ International Journal of Production Research (Taylor & Francis) ▪ IEEE Transaction on Engineering Management (IEEE) ▪ Computers & Industrial Engineering (Elsevier) ▪ Operations Management Research (Springer) ▪ Production & Manufacturing Research (Taylor & Francis) ▪ OPSEARCH (Springer) ▪ Cogent Engineering (Taylor & Francis) ▪ SAGE Open Journal (SAGE Publishing) ▪ International Journal of Engineering Business Management (SAGE Publishing)

	<ul style="list-style-type: none"> ▪ Complexity (Hindawi) ▪ Advances in Operations Research (Hindawi) ▪ Journal of Environmental and Public Health (Hindawi)
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Professional Membership

- The Operational Research (OR) Society- Membership No. 65094
- Industrial Engineering and Operations Management (IEOM)- Membership No. 1439453
- Institute of Mathematical Statistics (IMS)- Membership No. 35099
- International Association of Engineers (IAENG)
- RSIS International - Research and Scientific Innovation Society (Member)
- Materials Research Society (MRS)
- Institute For Engineering Research and Publication (IFERP)

Research Collaborations

Abroad	India
<ul style="list-style-type: none"> • Hong Kong University (HKU), Hong Kong. • EDHEC-Business School, Lille, France • Charlton College of Business, University of Massachusetts Dartmouth, US • University of Applied Sciences Geneva HES-SO, Carouge, Switzerland • University of Technology Sydney, Australia • Macau University of Science and Technology, Taipa, Macau, China • Nanjing University of Posts and Telecommunications, Nanjing, China • Zhengzhou University of Light Industry (ZULI), Zhengzhou, China 	<ul style="list-style-type: none"> • IIM Kashipur • IIM Lucknow • IIT BHU Varanasi • IIT Hyderabad • MNIT Jaipur • O.P. Jindal GU Sonipat, Haryana

References

<p>Dr. Saurabh Pratap (PhD Supervisor) Assistant Professor Department of Mechanical Engineering, IIT BHU, Varanasi, India, 221005 Mobile: +91-9476322824, +91-9735814141 E-mail: saurabh.mec@itbhu.ac.in, s.pratapiitkgp@gmail.com</p>	<p>Dr. Yash Daultani Assistant Professor, IIM Lucknow, India, 226013 Mobile: +91-522-6696614 E-mail: yash.daultani@iiml.ac.in</p>
<p>Dr. H. Chelladurai Assistant Professor Department of Mechanical Engineering, IIITDM, Jabalpur, India, 482005 Mobile: +91-761-2794418 E-mail: chella@iiitdmj.ac.in</p>	<p>Dr. Suneel K Jauhar Assistant Professor and Area Chair of Operations and Decision Science, IIM, Kashipur, India, 244713 Mobile: +91-7900444090 E-mail: sunil.jauhar@iimkashipur.ac.in</p>

Place: Amritsar, India

Date: July 29, 2024