



Dr. Amit Karamchandani

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Research Interest: Supply chain management, Blockchain, Sustainability, Structural equation modeling (SEM), System dynamics modeling (SD), Empirical studies, Experimental design, Rough set theory, Decision support systems

Teaching Interest: Operations management, Operations research, Introduction to blockchain, Supply chain analytics, Structural equation modeling, System dynamics modeling

Education: **Indian Institute of Management (IIM)**, Lucknow, Uttar Pradesh, India
PhD, Operations Management,
2016 – 2021

Overall CGPA: 7.19/10; OM Area CGPA: 8.0/10

- Thesis Title: Essays on the role of enterprise blockchain in supply chain management.

Indian Institute of Technology (IIT (BHU)), Varanasi,
(2005-2009), Bachelor of Technology, Mechanical Engineering
CGPA: 7.32/10

Academic Publications:

- Karamchandani, A., Srivastava S. and Srivastava R. (2020) "**Perception-based model for analyzing the impact of enterprise blockchain adoption on SCM in the Indian service industry**",
Journal: International Journal of Information Management.
DOI: <https://doi.org/10.1016/j.ijinfomgt.2019.10.004>
Journal Category: A* (ABDC); Journal Impact factor: **8.21**; CiteScore: **18.1**
- Karamchandani, A., Srivastava S., Kumar S. and Srivastava A. (2021)
“**Analysing the perceived role of blockchain technology in SCM context for the manufacturing industry**”.
Journal: International Journal of Production Research
DOI: <https://doi.org/10.1080/00207543.2021.1883761>
Journal Category: A (ABDC), CABS 3; Impact factor: **4.577**; CiteScore: **7.6**
<https://www.tandfonline.com/eprint/8IZBCSBGISBRDPT4EHNW/full?target=10.1080/00207543.2021.1883761>

- Karamchandani, A., Srivastava S. and Srivastava A. (2021) "**Enterprise Blockchain: An application based comprehensive literature review**". Journal: International Journal of Technology Intelligence and Planning (Status: Accepted for publication – In press)
Journal Category: **CABS 1**; CiteScore: **1**
<https://www.inderscienceonline.com/doi/abs/10.1504/IJTIP.2021.117994>

Papers under Review/ revision:

- Karamchandani, A., Srivastava S. and Abha "A lower approximation based **integrated decision analysis framework for a blockchain-based supply chain**". Computers and Industrial Engineering (Status: Under Review)
- Gupta, K., Abha and Karamchandani, A. "**Analyzing the Barriers to Solar Photo Voltaic Pump Adoption for Irrigation in Indian Agriculture**". Journal of Cleaner Production (Status: Under Review)

Working Papers:

- Karamchandani, A. and Srivastava S. "**Analyzing the profitability of Enterprise Blockchain adoption: a system dynamics framework**".
- Karamchandani, A. and Akhter, M. "**Analyzing the impact of Covid-19 on Enterprise Blockchain: Development, Demand and Investment**".

Book Chapters:

- Karamchandani, A., Srivastava, S. and Abha (2021), "**Integrative applications of blockchain and contemporary technologies from a Big Data perspective**". Status: **In Press** for the book on "**Big Data for Service Operations Management**" to be published by **Springer** in 2021

Academic Conferences and Workshops:

- Doctoral Case Teaching Workshop at **IIM Bangalore** (January 2020)
- "Analyzing the impact of Covid-19 on Enterprise Blockchain: Development, Demand and Investment" at **POMS Annual Conference 2021 (Online)**
- Accepted for paper presentation on "A Fuzzy Rough based algorithm for automated decisions in the blockchain-based supply chain" at **INFORMS Annual Meeting 2019, Seattle**
- "Comparing blockchain perception from SCM context in Indian manufacturing and service industries " at **XXIII Annual International Conference of the Society of Operations Management (SOM 2019), IIT Kanpur**
- "Perception-based model for analyzing the impact of Enterprise blockchain implementation on SCM" at the Doctoral consortium of **XXII Annual ISDSI conference, SPJIMR Mumbai**
- "Effects of Blockchain implementation on the profitability of an Agri supply chain: a system dynamics framework". **XXII Annual ISDSI conference, SPJIMR Mumbai**

- "Enterprise Blockchain- Potential applications and benefits". XXI Annual International Conference of the Society of Operations Management (**SOM 2017**), **Ahmedabad University**

Invited Reviewer for journals:

- International Journal of Production Research
- Annals of Operation Research
- International Journal of Information Management
- Information Technology and People
- Information Technology and Management

Work experience: **International Management Institute (IMI), New Delhi**

Assistant Professor, Operations Management (Feb 2022 – Current)

- Teaching core PG courses such as Business Statistics
- Teaching elective PG courses such as Supply chain analytics, and ‘Blockchain & IoT in SCM’
- Teaching FPM courses such as Structural Equation Modelling

Great Lakes Institute of Management, Gurgaon

Assistant Professor, Operations Management (April 2021 – Jan 2022)

- Taught OTDM (Operations research) to three sections of PGDM students (2 year program)
- Taught QMDM (Operations research) to three sections of PGPM students (1 year program)
- Mentored PGDM and PGPM students during their internship period
- Co-organized the Lumiere research symposium initiative
- Mentored the ‘Operations’ club

International Journal of Applied Management Science

Editorial Board Member (October 2021 – Current)

<http://www.inderscience.com/ijams>

Indian Institute of Management (IIM), Lucknow

Doctoral Student (June 2016- March 2021)

- In my two thesis essays, the research questions were addressed to evaluate the blockchain perception in Indian manufacturing and service sector by using **survey design** and **statistical hypothesis testing**. The data analysis was conducted by using software such as **Microsoft Office (Excel, PowerPoint, Word), SPSS and AMOS**.
- My third thesis problem was aimed at developing a framework which integrates the concepts of **artificial intelligence** and **operations research** (such as Case-

based reasoning, Interval-valued rough fuzzy set theory and Value closeness relation algorithm) and blockchain to help decision-makers make accountable and conformable decisions

- Demonstrated proficiency and experience in **writing skills** by publishing **three** papers in peer-reviewed journals (in **ABDC A*** and **A** category). Two papers are under review (in **ABDC A** category)
- Demonstrated proficiency and experience in **verbal communication** by giving a total of **28 seminars** as a part of my coursework (20), dissertation (1), defense (2) and research (5)

Bharat Heavy Electricals Limited (BHEL), Jhansi

Senior Design Engineer (June 2013- June 2016)

Process improvement

- **Vetted suppliers** based on specification and price to create a vendor list
- **Standardized the work process** of **tender designing** of power transformers
- Produced **optimized technical and commercial offers** for **50** power transformers
- Resolved **technical queries** of customers
- Took **initiatives** to finalize transformer drawings by using **AutoCAD** software

Leadership initiatives

- Engaged in **negotiation with customers** to finalize design documents of power transformers
- Provided **technical clearances** for outsourced material
- Raised **purchase requisitions** for the outsourced material
- Checked and **approved the test reports** of manufactured transformers
- Implemented **5S initiatives** in design function
- Coordinated the **testing** of power transformers
- Facilitated SMEs and Product Engineering Heads in uploading product data on **KBE Portal** to enable reduction of design cycle time

Bharat Heavy Electricals Limited (BHEL), Hyderabad

Quality Assurance Engineer (July 2009- June 2013)

Process improvement

- Achieved the **standardization of 120 manufacturing quality plans** of Heat exchanger equipment
- Achieved the **standardization of 200 vendor quality plans** for outsourced material of Heat Exchanger equipment
- **Co-authored** the revision of **Quality Management Instructions (QMI) document**
- Represented **Quality Assurance function** in RCA (Root cause analysis) **committee meetings** for Heat Exchanger equipment
- Reviewed and ensured revision of **engineering and purchase specification** of items related to Heat Exchanger equipment

- Implemented **5S and Lean initiatives** in **Quality Assurance** function
- Promoted the use of **SAP-DMS platform** by **knowledge sharing**

Leadership initiatives

- Engaged in **negotiation with customers** to finalize **manufacturing quality plans** of heat exchanger products
- Coordinated internal and **external audits** such as **ASME and BVC**
- Coordinated **senior management meetings** related to **Quality function**
- Imparted **technical training** to **Engineer trainees** on the functioning of **Quality assurance function**
- Acted as **Team Leader** to create and implement '**Online quality plan monitoring system**', which was appreciated by the **senior management**.
- Coordinated plant-wide **Quality Month initiatives** and training programs
- Represented **Quality function** for **inspection of new vendor facilities** for procurement of outsourced material related to Heat Exchanger equipment
- Coordinated **plant-wide training programs** on the **EFQM model**

Computer skills:

- Statistics software: **SPSS, PROCESS, MINITAB**
- SEM software: **AMOS**; Simulation software: **VENSIM, GPSS**
- **MS-Office, NVivo**; Coding skills: **R, Python, wxMaxima**

Scholastic Achievements/ Awards:

- **IIT-JEE (2005): ALL INDIA RANK 2947**
- **GRE (2015): 321/340; TOEFL (2015): 110/120**
- **PhD fellowship** awarded by **IIM Lucknow** for 4.5 years
- Among the **18 doctoral students** selected from **IIMs and IITs across the country** for doctoral teaching workshop at **IIM Bangalore** (January 2020)
- Received an offer of admission from **Purdue University (USA)** for **MS program in Mechanical Engineering** (2016).
- Received an offer of admission from **Arizona State University (USA)** for the **Ph.D. program in Mechanical Engineering** (2016).

Professional Affiliation:

- EURO working group - Multi-criteria decision aiding
- POMS
- Decision sciences institute (DSI)
- International Society on MCDM
- Association for supply chain management (ASCM)