

## Detailed Bio-data

### Books:

- ◦ Parag Chatterjee, Robin Singh Bhaduria and Yadunath Pathak, "5G and Beyond The Future of IoT," CRC-Press, 2021, ISBN 9780367493295.

### Book Chapters:

- Rachit Jain, Robin Singh Bhaduria, Neha Sharma, Yadunath Pathak, Varun Mishra, "Distributed MIMO Network for 5G Mobile Communication," CRC-Press, 2020, eBook ISBN9781003096450.
- Jasmininder Kaur Sandhu, Prateek Srivastava, Yadunath Pathak, Meena Pundir, "Intelligence and Security in 5G - Oriented Internet of Things," CRC-Press, 2021, ISBN 9780367493295.
- Yadunath Pathak, & Pawar, P., "Blockchain and Bitcoin security in industry 4.0," Intelligent Analytics for Industry 4.0 Applications, pp. 241–252, 2023. doi:10.1201/9781003321149-17
- Yadunath Pathak, P.V.N. Prashanth, Jasmininder Kaur Sandhu, and Varun Mishra, "Blockchain architecture for social opinion vote-cast system," Blockchain Technology for Secure Social Media Computing, 2023.
- Yadunath Pathak, Prashanth, P.V.N., Tiwari, A., "AI Meets SDN: A Survey of Artificial Intelligent Techniques Applied to Software-Defined Networks." In: Kumar, M., Gill, S.S., Samriya, J.K., Uhlig, S. (eds) 6G Enabled Fog Computing in IoT. Springer, 2023.
- Manisha Shukla, Brajkishore Prajapati and Yadunath Pathak, "A New Tool for Healthier Future of India." ICAR 2023, Recent Advances in Agriculture Sciences and Technology. ISBN-978-93-91995-07-2.
- Suman, O.P., Kumar, M., Pathak, Y. (2025). "Next-Generation Cloud Security Paradigm: Orchestrating Cutting-Edge Machine Learning for DDoS Attack Detection Through Robust Optimization Algorithm." In: Kumar, M., Gill, S.S., Kumar, V., Verma, P. (eds) Computational Intelligence Techniques for 5G Enabled IoT Networks. Advances in Science, Technology & Innovation. Springer, Cham.

### Conference Organization :

- IEEE Technical Sponsored International Conference – World Conference on Cutting Edge Science and Technology (WCCEST-2025), scheduled 24–26 September 2025.

### Editorial & Selected Talks :

- Editor in Journal: "Ontology-Based Knowledge Graphs for Personalized Public Health."
- Editor in Journal: "International Journal of High Speed Electronics and Systems"

FDP/Workshop organized :

- Five Days Online Workshop on Machine Learning and Its Significance, 5th -9th April 2021, Organized at Indian Institute Of Information Technology, Bhopal.

Recognitions :

- Jury Member at SCEES'24 Conference organized by IEEE-MANIT Student Branch.
- Served as Session Chairman at the 4th International Conference on Machine Vision and Augmented Intelligence (MAI-2024), organized by the Department of Computer Science and Engineering MANIT.
- Served as Session Chair at the 4th International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2024), organized by the Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi (19th-21st December 2024).
- Served as Session Chair at the IEEE International Conference on Engineering Innovations and Technologies, held at LNCT Bhopal.

Continuing Education & Special Lectures :

- GATE faculty at various Institute and Universities across the India. More than 150 hours video lecture content is available in YouTube.
- Expert lecture on Generative AI at SVKM's NMIMS, Indore, during the One-Week National Faculty Development Program on "Generative AI: Transforming Innovation in Technology and Education"
- Lecture on Database Management System (DBMS) in BIT Raipur 23 Feb 2019.
- Lecture on Database Management System (DBMS) in LNCT Bhopal 11 Feb 2019.
- Lecture on Database Management System (DBMS) Thapar University Patiala 30 Oct 2018.
- Lecture on Database Management System (DBMS) and Computer Network in MITS Gwalior September 2018.

Administrative Responsibilities :

- Assistant Warden, Hostel 9 – Institute responsibilities include student welfare, hostel administration, discipline and coordination with mess and maintenance teams.