



B. P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
RESEARCH PUBLICATION

ACADEMIC YEAR: 2024-25
LIST OF PUBLICATIONS

Journal (SCI/SCIE)	Journal (Scopus)	Other Journals	Book/ Book Chapters	Conference Proceedings	Total
4	2		2	11	19

Journal Articles

1. Arnab Kumar Ghoshal, **Nabanita Das**, Soham Das, and Subhankar Dhar, “Minimizing spread of misinformation in social networks: a network topology based approach”, Social Network Analysis and Mining, Springer, Vol. 15, Article No. 15, March 2025. DOI <https://doi.org/10.1007/s13278-025-01433-y>
2. Amit Khan, Dipankar Majumdar, **Bikromaditya Mondal**, “A hybrid transformer based model for sarcasm detection from news headlines”, Journal of Intelligent Information Systems, (**Science Citation Index Expanded**, (impact Factor 2.3), 2025. DOI <https://doi.org/10.1007/s10844-025-00941-9>
3. Amit Khan, Dipankar Majumdar, **Bikromaditya Mondal**, “Sentiment analysis of emoji fused reviews using machine learning and Bert”, in Scientific Reports (**Science Citation Index Expanded**, (impact Factor 3.8), **15**, 7538, 2025. DOI <https://doi.org/10.1038/s41598-025-92286-0>
4. Abhijit Bhattacharya, Kamlesh Kumar Dubey, **Bikromaditya Mondal**, “Volume Like Elements of an n -Dimensional Simplex in Non-Euclidean Spaces”, in Siberian Mathematical Journal (**Science Citation Index Expanded**, Scopus indexed, impact Factor 0.7(2023)), Volume 65, Issue 4, pp. 878–898, 2024. DOI <https://doi.org/10.1134/S0037446624040141>.
5. Banhi Das , Arijit Saha. & **Somali Sikder**, A Novel Image Compression Technique and Secured Transmission of Compressed Satellite Images Via Optical Fiber Using 6D Hyper Chaos. J Indian Soc Remote Sens 53, 511–530 (2025). DOI <https://doi.org/10.1007/s12524-024-01984-1> (**Science Citation Index Expanded**)
6. Banhi Das, **Somali Sikder**, Arijit Saha, ‘ A novel image compression technique and secured transmission of compressed images via optical fiber using higher dimensional chaotic map’, J Opt (2024). <https://doi.org/10.1007/s12596-024-02396-7> .



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Conference Articles

1. Barnita Das, **Bikromadittyta Mondal**, Rahul Sinha, Exploring Fusion Centrality in Developer Social Networks, in proceedings of the IEEE International Conference on Big Data Analytics in Bioinformatics (DABCon-2024), Kolkata, India, November 21-23, 2024. <https://doi.org/10.1109/DABCon63472.2024.10919331>
2. Amit Khan, Dipankar Majumdar, **Bikromadittyta Mondal**, Judging the Psychological Impact of News Articles on Rehab Patients: A Deep Learning Approach, In Proceedings of IEEE International Conference on Communication, Computing and Signal Processing (IICCCS), ASANSOL, India, 19-20 September, 2024, pp. 1-5. <https://doi.org/10.1109/IICCCS61609.2024.10763606>
3. Riya Majumder, **Amartya Dutta**, Rajarshi Bhattacharya & Rajat Kumar Pal , A Hybrid BAT Algorithm for Scheduling Droplet Mixing Operations in Digital Microfluidic Biochips, Proceedings of 27th International Symposium on VLSI Design and Test (VDAT-2023), Dept. of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus, Rajasthan, India, Sept. 29 – Oct. 1, 2023, ISBN - 978-981-97-3755-0, 978-981-97-3756-7 (eBook), © Springer Nature Singapore Pte Ltd.– 2025, DOI - [10.1007/978-981-97-3756-7](https://doi.org/10.1007/978-981-97-3756-7)
4. Rishav Chanda, Adriz Chanda, **Jayeeta Chanda** ,A Holistic Approach to the Prediction of Football Matches Using Machine Learning. In: Chaki, R., Cortesi, A., DasGupta, S., Saha, S. (eds) Smart Systems and Wireless Communication. SSWC 2024. Smart Innovation, Systems and Technologies, vol 433. Springer, Singapore. https://doi.org/10.1007/978-981-96-1348-9_3
5. Kaustuv Deb, **Proshanta Sarkar**; Atanu Das, Rajib Bag, Student knowledge deficiency finding and grading using K-means clustering and fuzzy logic, 2025 International Conference on Intelligent and Cloud Computing (ICoICC), Bhubaneswar, India, 2025, pp. 1-6, DOI [10.1109/ICoICC64033.2025.11052129](https://doi.org/10.1109/ICoICC64033.2025.11052129).
6. **Somali Sikder**, Madhumita Sarkar and Shila Ghosh, Secured Transmission of Images using Designed Transposed Modified Walsh Code (TMWC) in OCDMA System, 2024 IEEE Calcutta Conference (CALCON), Kolkata, India, 2024, pp. 1-5, DOI [10.1109/CALCON63337.2024.10914077](https://doi.org/10.1109/CALCON63337.2024.10914077).



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7. Sayandip Bhattacharyya, Maaitrayo Das, **Amlan Raychaudhuri**, Satyabrata Maity, Amlan Chakrabarti and Debotosh Bhattacharjee, CarNet: An Innovative Cost-effective Driver Monitoring System Using CNN”, 1st International Conference on Artificial Intelligence & Sustainable Computing (AISC 2024), (July 2024), Springer. **[In Press]**
8. Sourasish Mondal , Ankita Dutta, Parthiv Modak, **Pratap Chandra Mandal**, Hybrid Deep Transfer Learning Framework Leveraging Modified Xception with Depth-Wise Separable Convolutions for Accurate Pneumonia Detection in Chest Radiographs, 6th IEEE India Council International Subsections Conference, NIT Rourkela (2025).
9. Manab Kr. Das, **Proshanta Sarkar**, Priti Deb and Indrajit De, IoT Enable Secure Remote Patient Health Monitoring for Treatment Optimization, International Conference on Artificial Intelligence and Sustainable Computing (AISC 24), Springer **[In Press]**
10. Prasenjit Das, Manab Kr. Das and **Proshanta Sarkar**, Machine Learning based Crop Recommendation System for Modern Agriculture: A Hybrid Approach, International Conference on Artificial Intelligence and Sustainable Computing (AISC 24), Springer. **[In Press]**.
11. Ankit Prasad, Abhijit Deb, Arnab Sarkar, Harsh Joshi, **Pratap Chandra Mandal**, A Secure High-Capacity Steganographic Technique using AES-Encrypted Embedding in Deep CNN, International Conference on Signal Processing and Computer Vision, Springer, NIT Silchar (2025) (Accepted)

Books/Book Chapter

1. **Mr. Proshanta Sarkar**, Mr. Amitava Podder, Ms. Taruna Chopra, Mr. Manab Kr. Das, Ms. Pooja P. Raj, “Artificial Intelligence: Problem Solving Algorithms”, Alpha International Publication, 2024. ISBN NO: 978-93-5762-287-5 **[Text Book]**
2. Saksham Sneh Mandal, **Ananya Kanjilal**, "Requirement-Driven Developer Recommendation Framework Based on Github Developer Social Network", Book Chapter, Lecture Notes in Networks and Systems, LNNS, Vol 1010, Intelligent Computing Systems and Applications, Springer Nature, Proceedings of ICICSA 2023, 20 September 2024, pp. 231-246 https://doi.org/10.1007/978-981-97-5412-0_17.