



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

ACADEMIC YEAR: 2023-24
LIST OF PUBLICATIONS

Journal (Scopus)	Other Journals	Book/ Book Chapters	Conference Proceedings	Patent	Total
5		1	5	2	13

Journal Publications

1. **Amlan Raychaudhuri**, Satyabrata Maity, Amlan Chakrabarti, and Debotosh Bhattacharjee, SMDF: Spatial Mass Distribution Features and Deep Learning-Based Technique for Human Activity Recognition, SN Computer Science, Springer Nature, ISSN: 2661-8907, vol. 5, art. no. 129, pp. 1–13, Dec. 2023. DOI: <https://doi.org/10.1007/s42979-023-02452-2>
2. Abhijit Bhattacharya, Kamlesh Kumar Dubey, and **Bikromadittya Mondal**, Volume of an n-dimensional Polyhedron: Revisited, Journal for Geometry and Graphics, HELDERMANN VERLAG, GERMANY, ISSN: 1433-8157, vol. 27, no. 1, pp. 001–009, July 2023. <https://www.heldermann-verlag.de/jgg/jgg27/j27h1bhat.pdf> .
3. **Pratap Chandra Mandal**, Imon Mukherjee, and **Biswanathnath Chatterji**, Integer wavelet transform based high performance secure steganography scheme QVD-LSB. Multimed Tools Appl **83**, 62651–62675 (2024). <https://doi.org/10.1007/s11042-023-17927-w>
4. Salmoli Chandra, **Jayeeta Chanda**, Sukumar Chandra, Prediction of Cardiovascular Disease Using Machine Learning Algorithms on Healthcare Data, Journal of Advanced Zoology, vol. 44, pp. 1215, 2023.
5. Banhi Dutta Choudhuri Das, Anirban Patra, Arijit Saha & **Somali Sanyal Sikder** , Secured communication of multiple compressed infrared images using 6D hyper-chaotic encryption. Journal of Optics, pp.1-13, DOI: <https://doi.org/10.1007/s12596-024-01655-x>



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Conference Publication

1. Rishav Chanda, **Soumi Tokdar, Jayeeta Chanda, Ananya Kanjilal**, An Efficient and Cost-Effective Approach for Targeted Influence Maximization, In Proceedings of IEEE SILCON, IEEE Silchar Subsection, International Conference, November 2023.
2. **Amartya Dutta**, Riya Majumder, Rajat Kumar Pal Reinforcement Learning based Droplet Routing Technique in Hexagonal Digital Microfluidic Biochips using Dueling Network. 37th International Conference on VLSI Design and 2024 23rd International Conference on Embedded Systems (VLSID) 2024 Jan 6 (pp. 67-72). IEEE.
3. Banhi Das, Arijit Saha, **Somali Sikder**, 2023, December. Multistage Encryption of Mammogram Images Using Fractional Fourier Transform and 3D Chaotic Map. In International e-Conference on Advances in Computer Engineering and Communication Systems (ICACECS 2023) (pp. 239-248). Atlantis Press.
4. Banhi Das, Arijit Saha, **Somali Sikder** 2024, February. 3D Lorenz chaotic map to 4D hyperchaos: A comparison based on image encryption. In 2024 International Conference on Emerging Systems and Intelligent Computing (ESIC) (pp. 51-55). IEEE.
5. Banhi Das, Arijit Saha, **Somali Sikder** 2024, February. Secured Transmission of Biomedical Images Using CHAOS and 2-D Fractional Fourier Transform Based Encryption Scheme. In 2024 International Conference on Emerging Systems and Intelligent Computing (ESIC) (pp. 46-50). IEEE.



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Book Series

1. Riya Majumder, **Amartya Dutta** & Rajat Kumar Pal, Augmentation of mixing quality and its analysis based on electrode shape diversity in digital microfluidic biochips. International Symposium on Applied Computing for Software and Smart Systems 2023 Sep 15 (pp. 29-44). Singapore: Springer Nature Singapore. DOI https://doi.org/10.1007/978-981-99-7783-3_3

Patent Published

1. S. Biswas, Dibakar Saha, A. Das and **Nabanita Das**, Uniform Area Sensing Model: A Realistic Model for Smart Sensing, Application No. 202431001212 , Date of filing 06-01-2024 , Publication Date (U/S 11A) : 26-01-2024.
2. Avirup Das , Nabanita Das and Dibakar Saha , Channel Usage Prediction using Deep-Learning for Cognitive Radio Networks, Application No. 202331048103 , Date of filing 17-07-2023 , Publication Date (U/S 11A) : 06-10-2023.