

SILIGURI INSTITUTE OF TECHNOLOGY
R & D
Journal Publication 2024 to 2025

SL NO	Author	Title of paper	Name of the author/s	Name of journal	Year of publication	Indexed by SCI/ UGC Care list/Scopus/Web of Science	ISBN/ISSN
1	Dr Joydeep Dutta	A Novel Approach to Data Clustering based on Self-Adaptive Bacteria Foraging Optimization	Tanmoy Singha, Rudra Sankar Dhar, Arindam Biswas and Joydeep Dutta	International Journal of Advanced Computer Science and Applications (IJACSA)	January 2024	Scopus	ISSN : 2156-5570 (Online) ISSN : 2158-107X (Print)
2	Dr. Prasanta Kumar Roy	A deep learning-based authentication protocol for IoT-enabled LTE systems	A. Sai Venkateshwar Rao, Prasanta Kumar Roy, Tarachand Amgoth, Ansuman Bhattacharya	Future Generation Computer Systems	May 2024	SCIE	Online ISSN: 1872-7115 Print ISSN: 0167-739X
3	Dr Asit Barman	Exploring the Horizons of Meta-Learning in Neural Networks: A Survey of the State-of-the-Art	A. Barman, S. K. Roy, S. Das and P. Dutta	IEEE Transactions on Emerging Topics in Computational Intelligence, IEEE	2024	SCI	2471-285X
4	Dr Asit Barman	Facial expression recognition using reversible neural network	Asit Barman, Paramartha Dutta,	Applied Soft Computing	2024	SCIE	1872-9681
5	Dr Manas Kumar Parai	Distortion Analysis and Fault Detection in Weakly Non-linear Analog Circuits Using Simplified Volterra Series Method	Manas Kumar Parai, Banasree Das	Procedia Computer Science, Elsevier	2024	Scopus	Online ISSN: 1877-0509

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6	Ms Sarmistha Mondal	Novel properties of High-Performance Multi-Component Mixture for Vertically Aligned Mode LCDs	Prajnamita Dasgupta, Sarmistha Mondal, Banani Das and Malay Kumar Das	Taylor & Francis	2024	SCIE	
7	Dr. Sagar Dey	Barrow holographic dark energy in Brane world cosmology	Anirban Chanda, Arpan Krishna Mitra, Sagar Dey, Souvik Ghose, Bikash Chandra Paul	Classical and Quantum Gravity	18/1/2024	SCI and web of science	ISSN: 0264-9381 (print); 1361-6382 (web)
8	Mr. Pinaky Bhadury	Optimization of high speed bone drilling with automated osteonecrosis avoidance using an ANN-GA hybrid method	Nripen Mondal, Soumil Banik, Shubham Kumar Burnwal, Srija Sarkar, Monoranjan Nandi, Durba Shil, Ankur Paul, Pinaky Bhadury & Sudip Mandal	International Journal of Modelling and Simulation, Taylor & Francis	2024	SCIE	
9	Mr. Soumendu Golui	Reliability analysis of landing architecture of aircraft using Fermatean fuzzy arithmetic operation	Soumendu Golui, BS Mahapatra, GS Mahapatra	Life Cycle Reliability and Safety Engineering	December 2024	SCI	Electronic ISSN 2520-1360 Print ISSN 2520-1352

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10	Dr. Prasanta Kumar Roy	ZeroVCS: An efficient authentication protocol without trusted authority for zero-trust vehicular communication systems	Prasanta Kumar Roy, Pankaj Kumar, Ansuman Bhattacharya	Future Generation Computer Systems	February 2025	SCIE	Online ISSN: 1872-7115 Print ISSN: 0167-739X
11	Dr Dia Ghosh	Synchronization and Stability Analysis of Modified Injection Locked Unilaterally Coupled Optoelectronic Oscillators	Arindam Ray , Dia Ghosh , Arindum Mukherjee , Nikhil Ranjan Das	Optics Communications, Elsevier	June,2025	SCIE	Print ISSN: 0030-4018 Online ISSN: 1873-0310
12	Dr Asit Barman	Thresholding metrics for evaluating explainable AI models in disaster response: Enhancing interpretability and model trustworthiness	Sayan Kumar Bhowmick, Asit Barman, Swalpa Kumar Roy	Digital Signal Processing, Elsevier	2025	SCIE	Online ISSN: 1095-4333 Print ISSN: 1051-2004
13	Mr. Pinaky Bhadury	High-speed swine bone drilling parametric optimization: minimizing temperature and thrust force using GRA and COPRAS methods	Ankur Paul, Nripen Mondal, Soumil Banik, Srija Sarkar, Madhab Chandra Mandal, Pinaky Bhadury, Asim Mahapatra, Sudip Mandal	Arabian Journal for Science and Engineering, Springer Nature Link	April, 2025	SCIE	Electronic ISSN 2191-4281 Print ISSN 2193-567X
14	Ms.Rimni Chakravarty	The Theme of Alienation: A Universal Phenomenon in Literature and Life”	Ms.Rimni Chakravarty	Organization Development JOURNAL	January 2025	UGC-CARE Approved Group ‘II’ journal, Indexed In Scopus	ISSN 2055-0138(Print), ISSN 2055-0146 (Online)

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15	Mr. Soumendu Golui	Decision on Insurance Policy Selection by weighted Correlation Approach on Neutrosophic Fuzziness through TOPSIS	Soumendu Golui, BS Mahapatra, MB Bera, MK Mondal, GS Mahapatra	Neutrosophic Sets and Systems	August 2025	Scopus	eISSN: 2331-608X pISSN: 2331-6055
16	Mr. Soumendu Golui	Hesitant Bi-fuzzy Dombi Operator Based Group Decision-making Approach for Electric Vehicle Selection	Soumendu Golui, Bidyut Das, GS Mahapatra, BS Mahapatra	Process Integration and Optimization for Sustainability	May 2025	SCI	Electronic ISSN 2509-4246 Print ISSN 2509-4238
17	Mr. Soumendu Golui	System reliability analysis of thermal power plant using novel approach to pythagorean fuzzy numbers operations	Soumendu Golui, BS Mahapatra, GS Mahapatra	Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability	April 2025	SCI	ISSN: 1748-006X Online ISSN: 1748-0078
18	Dr. Samit Ghosh	Influence of Magnetic field penetration in the hydromagnetic flow past a sphere	Samit Ghosh, Subharthi Sarkar, TVS Sekhar	Journal of Applied Mathematics and Mechanics	March 2025	SCIE, Web of Science	
19	Ms. Sathi Ball	User Acceptance of eLearning: A Conceptualized Hybrid Model Integrating Technology Acceptance Model and Expectancy Confirmation Model	Sathi Ball, Dr. Biswajit Roy and Dr. Amit Kundu	International Journal of Applied Management Research (IJAMR)	August 2025	A Double Blind Peer Reviewed Journal	(ISSN No. 2347-2839)

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20	Mr. Bidyut Das	Hesitant Bi-fuzzy Dombi Operator Based Group Decision-making Approach for Electric Vehicle Selection	Soumendu Golui, Bidyut Das, GS Mahapatra, BS Mahapatra	Process Integration and Optimization for Sustainability	May 2025	SCI	Electronic ISSN 2509-4246 Print ISSN 2509-4238
21	Mr. Mithun Roy	Community-Based Memetic Algorithm for Influence Maximization in Large-Scale Networks	Mithun Roy and Indrajit Pan	IEEE Access	May 2025	SCI	Electronic ISSN: 2169-3536
22	Mr. Mithun Roy	CBDP-IM: Community-Based Diffusion Propagation for Influence Maximization Algorithm on Large Social Network	Mithun Roy and Indrajit Pan	Multimedia Tools and Applications journal	May 2025	SCI	Electronic ISSN 1573-7721