

Sl. No.	Name of the Faculty	Title of the book/chapters published	Title of the paper	Details	Year of Publication
1	Kaliprasanna Swain	Data-Driven Diagnostics and Disease Prediction with AI Optimization	Enhancing heart disease prediction with automated machine learning: a case study using EvalML	Academic Press, 2026, Pages 323-338, ISBN 9780443267475, https://doi.org/10.1016/B978-0-443-26747-5.00015-X .	2026
2	Kaliprasanna Swain	Advances in Computers	Automated classification of cervical cancer cells using deep learning models: A comparative analysis of CNN architectures.	Elsevier, 2026, ISSN 0065-2458, https://doi.org/10.1016/bs.adcom.2026.01.004 .	2026
3	Kaliprasanna Swain	Advances in Computers	Human-robot interaction: Ensuring safe and effective coordination	Elsevier, 2026, ISSN 0065-2458, https://doi.org/10.1016/bs.adcom.2026.01.011 .	2026
4	Kaliprasanna Swain	Advances in Computers	The future of hepatology: Leveraging PyCaret and streamlit for disease classification and prediction	Elsevier, 2026, ISSN 0065-2458, https://doi.org/10.1016/bs.adcom.2026.01.006 .	2026
5	Kaliprasanna Swain	Advances in Computers	The Role of Artificial Intelligence in Electric and Autonomous Vehicles	Elsevier, 2026, ISSN 0065-2458, https://doi.org/10.1016/bs.adcom.2026.01.007	2026
6	Kaliprasanna Swain	Deep Learning in Genome Mapping (pp.194-208)	Development and Validation of an AI-Based Model for Heart Delineation in Chest X-Ray Images	DOI:10.1201/9781003516729-10	2026
7	Kaliprasanna Swain	2025 International Conference on Emerging Systems and Intelligent Computing (ESIC)	Explainable Artificial Intelligence for Breast Cancer Classification Using SHAP: A Comprehensive Analysis	pp. 566-571, doi: 10.1109/ESIC64052.2025.10962570	2025

8	Kaliprasanna Swain	Intelligent Systems. ICMIB 2024. Lecture Notes in Networks and Systems	LFAOA: Levy Flight Based Arithmetic Optimization Algorithm for Epileptic Seizure Detection Using DWT and Rule-Based Classifiers	Vol 1314. Springer, Singapore. https://doi.org/10.1007/978-981-96-3797-3_33	2025
9	Kaliprasanna Swain	2025 International Conference on Artificial intelligence and Emerging Technologies (ICAIET)	Epileptic Seizure Detection Using Hybridization of PSO and GOZDE Algorithms with ELANFIS Classifier	pp. 1-6, doi: 10.1109/ICAIET65052.2025.11211506.	2025
10	Kaliprasanna Swain	2025 International Conference on Next Generation of Green Information and Emerging Technologies (GIET)	Explainable Machine Learning for Sleep Health Analysis Using XGBoost and SHAP Interpretability	pp. 1-5, doi: 10.1109/GIET65294.2025.11234838	2025
12	Kaliprasanna Swain	Advances in Signal Processing, Power, Communication and Computing	Implementation of optical lock through visible light communication using AES	International Conference on Advances in Signal Processing, Power,	2024
13	Kaliprasanna Swain	Machine Learning, IoT and Big Data	LF-AOA: Levy Flight Based Arithmetic Optimization Algorithm for Epileptic seizure Detection using DWT and Rule- Based Classifiers	International Conference on Machine Learning, IoT and Big Data	2024
14	Kaliprasanna Swain	Electrical Power Engineering, Communication and Computing Technology	GSA-PSO: A Hybrid Optimization Algorithm using WPT and RBFNN for Accurate Epileptic Seizer Detection	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024

15	Kaliprasanna Swain	Electrical Power Engineering, Communication and Computing Technology	Leveraging Keras for Early Detection of Diabetes: A Multi-Layer perceptron model	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024
16	Kaliprasanna Swain	Electrical Power Engineering, Communication and Computing Technology	Hybridization of Sparrow Search Algorithm and Sine Cosine Algorithm for Epileptic Seizure Detection	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024
17	Kaliprasanna Swain	Parallel, Distributed and Grid Computing	Effectiveness of TLBO, SCA and WaOA for Epileptic Seizer Detection	International Conference on Parallel, Distributed and Grid Computing	2024
18	Kaliprasanna Swain	Ambient Intelligence in Health Care	Performance Evaluation of PO, SO and SHO Algorithms for Epileptic Seizer Detection	International Conference on Ambient Intelligence in Health Care	2024
19	Biswa Ranjan Swain	Microwaves, Antennas and Propagation	Advances in Metasurface Antenna for Real- Time Biomedical Applications	Microwaves, Antennas and Propagation Conference (MAPCON)	2024
20	Biswa Ranjan Swain	WAMS	A systematic LHCP Antenna Design Exploration for smarter IOT Applications	WAMS 2024	2024
21	Sumant Kumar Mohapatra	Health care industry assessment: Analyzing risks, security and reliability ISBN: 978-3-031-65433-6	The Impact of Machine Learning on Chronic Kidney Disease: Analysis and Insights	The Impact of Machine Learning on Chronic Kidney Disease: Analysis and Insights	2024

22	Kaliprasanna Swain	Automation and Computing	Performance analysis of junction less gate all around MOSFET with gate metal engineering	International Conference on Automation and Computing	2024
23	Kaliprasanna Swain	Automation and Computing	Automated Brain Tumor Detection in MRI Images Using YOLOv8: A Real-Time Diagnostic Tool for Precision Oncology	International Conference on Automation and Computing	2024
24	Sumant Kumar Mohapatra	Computing, Communication and Intelligence ISBN: 9781003581215	Effectiveness of SOSA, FFA and GOA Algorithms for Epileptic Seizure Detection Using DWT and SVM	Effectiveness of SOSA, FFA and GOA Algorithms for Epileptic Seizure Detection Using DWT and SVM	2024
25	Sumant Kumar Mohapatra	Computing, Communication and Intelligence ISBN: 9781003581215	A Novel Approach to Detect Epileptic Seizure from EEG Signal Using WPT and LSSVM Classifier Optimised by Tunicate Swarm Algorithm	A Novel Approach to Detect Epileptic Seizure from EEG Signal Using WPT and LSSVM Classifier Optimised by Tunicate Swarm Algorithm	2024
26	Sumant Kumar Mohapatra	Sustainable Materials, Structures and IoT ISBN: 9781003596776	Implementing AutoML for Wine Quality Classification Using AutoGluon and Leaderboard Analysis	Implementing AutoML for Wine Quality Classification Using AutoGluon and Leaderboard Analysis	2024
27	Sumant Kumar Mohapatra	Sustainable Materials, Structures and IoT ISBN: 9781003596776	Decoding E. coli: Machine Learning Approaches to Identify Promoter DNA Sequences	Decoding E. coli: Machine Learning Approaches to Identify Promoter DNA Sequences	2024

28	Sumant Kumar Mohapatra	Book Name: Genome mapping and advancement of deep learning approaches: computation and analysis in medical applications	Development and Validation of an AI-Based Model for Heart Delineation in Chest X-Ray Images	Development and Validation of an AI-Based Model for Heart Delineation in Chest X-Ray Images	2024
29	Sumant Kumar Mohapatra	DATA- DRIVEN DIAGNOSTIC S AND DISEASE PREDICTION WITH AI OPTIMIZATION	Enhancing Heart Disease Prediction with AutoML: A Case Study Using EvalML	Enhancing Heart Disease Prediction with AutoML: A Case Study Using EvalML	2024
30	Sumant Kumar Mohapatra	DATA- DRIVEN DIAGNOSTIC S AND DISEASE PREDICTION WITH AI OPTIMIZATION	Artificial Intelligence and Healthcare: A Critical Review of the Current State and Future Directions	Artificial Intelligence and Healthcare: A Critical Review of the Current State and Future Directions	2024
31	Sumant Kumar Mohapatra	Hydrogen Economy - A Road to Oil of the Future	Sustainable Energy Solutions: Embracing the Hydrogen Economy	Sustainable Energy Solutions: Embracing the Hydrogen Economy	2024
32	Sumant Kumar Mohapatra	Hydrogen Economy - A Road to Oil of the Future	Hydrogen Storage and Transport: Challenges and Innovations	Hydrogen Storage and Transport: Challenges and Innovations	2024
33	Sumant Kumar Mohapatra	AI in renewable Energy	Renewable Energy Dynamics: Growth Patterns and Predictions from 1965 to 2040	Renewable Energy Dynamics: Growth Patterns and Predictions from 1965 to 2040	2024
34	Sumant Kumar Mohapatra	AI in renewable Energy	Advanced-Data Analysis and Time Series Forecasting for Renewable Energy Trends	Advanced-Data Analysis and Time Series Forecasting for Renewable Energy Trends	2024

35	Sumant Kumar Mohapatra	Machine Learning, IoT and Big Data	LF-AOA: Levy Flight Based Arithmetic Optimization Algorithm for Epileptic seizure Detection using DWT and Rule-Based Classifiers	International Conference on Machine Learning, IoT and Big Data	2024
36	Sumant Kumar Mohapatra	Advances in Signal Processing, Power, Communication and Computing	Implementation of optical lock through visible light communication using AES	International Conference on Advances in Signal Processing, Power, Communication and Computing	2024
37	Sumant Kumar Mohapatra	Electrical Power Engineering, Communication and Computing Technology	GSA-PSO: A Hybrid Optimization Algorithm using WPT and RBFNN for Accurate Epileptic Seizer Detection	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024
38	Sumant Kumar Mohapatra	Electrical Power Engineering, Communication and Computing Technology	Leveraging Keras for Early Detection of Diabetes: A Multi-Layer perceptron model	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024
39	Sumant Kumar Mohapatra	Electrical Power Engineering, Communication and Computing Technology	Hybridization of Sparrow Search Algorithm and Sine Cosine Algorithm for Epileptic Seizure Detection	Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology	2024
40	Sumant Kumar Mohapatra	Parallel, Distributed and Grid Computing	Effectiveness of TLBO, SCA and WaOA for Epileptic Seizer Detection	International Conference on Parallel, Distributed and Grid Computing	2024

41	Sumant Kumar Mohapatra	Ambient Intelligence in Health Care	Performance Evaluation of PO, SO and SHO Algorithms for Epileptic Seizer Detection	International Conference on Ambient Intelligence in Health Care	2024
42	Sumant Kumar Mohapatra	Automation and Computing	Performance analysis of junction less gate all around MOSFET with gate metal engineering	International Conference on Automation and Computing	2024
43	Sumant Kumar Mohapatra	Automation and Computing	Automated Brain Tumor Detection in MRI Images Using YOLOv8: A Real-Time Diagnostic Tool for Precision Oncology	International Conference on Automation and Computing	2024
44	Biswa Ranjan Swain	Wireless Antenna and Microwave Symposium (WAMS)	A Systematic LHCP Antenna Design Exploration for Smarter IoT Wireless Networks	IEEE Wireless Antenna and Microwave Symposium (WAMS)	2024
45	Md. Rizwan Khan	Computing, Communication and Learning	Implementation of Weighted Parallel Interference Cancellation Technique for Multi User Detection in UWA Communication	Computing, Communication and Learning: Second International Conference	2024
46	Millee Panigrahi	ICT for Sustainable Development	Support Vector Machine Classifier for Wheat Grain Identification Based on Grid Search Optimization Technique	International Conference on ICT for Sustainable Development	2023
47	Biswa Ranjan Swain	MAC	Efficient Metasurface Antenna Design for compact 5G wireless Applications	MAC 2024	2023

48	Kaliprasanna Swain	Metaheuristics in Software Engineering and its Application	Automated Test Case Prioritization Using Machine Learning	International Conference on Metaheuristics in Software Engineering and its Application	2022
49	Kaliprasanna Swain	Recent Advances in Mechanical Engineering Research and Development	Application of Evolutionary Technique for Mapping onto Network on Chip	International Conference on Recent Advances in Mechanical Engineering Research and Development	2022
50	Millee Panigrahi	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing	Evaluation of Different Paradigms of Machine Learning Classification for Detection of Breast Carcinoma	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing: Proceedings of ICSST, Springer	2022
51	Nibedita Pati	Data Science and Applications	Automated Classification of Hepatocellular Carcinoma (HCC) Images for Detection of Malignant Tumor Using HOG Technique	Proceedings of International Conference on Data Science and Applications: ICDSA, Springer	2022
52	Nibedita Pati	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing	Evaluation of Different Paradigms of Machine Learning Classification for Detection of Breast Carcinoma	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing: Proceedings of ICSST, Springer	2022
53	Millee Panigrahi	Data Science and Applications	Automated Classification of Hepatocellular Carcinoma (HCC) Images for Detection of Malignant Tumor Using HOG Technique	Proceedings of International Conference on Data Science and Applications: ICDSA, Springer	2022
54	Millee Panigrahi	Intelligent and Cloud Computing	Face Mask Detection in Public Places Using Small CNN Models	International Conference on Intelligent and Cloud Computing: Proceedings of ICICC, Springer	2022

55	Sumant Kumar Mohapatra	Intelligent and Cloud Computing	Automatic Detection of Epileptic Seizure Based on Differential Entropy, E-LS- TSVM, and AB-LS-SVM	International Conference on Intelligent and Cloud Computing: Proceedings of ICICC, Springer	2022
56	Minu Samantaray	Data Science and Applications	Automated Classification of Hepatocellular Carcinoma (HCC) Images for Detection of Malignant Tumor Using HOG Technique	Proceedings of International Conference on Data Science and Applications: ICDSA, Springer	2022
57	Minu Samantaray	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing	Enhanced Feature Matching Algorithm for Medical Image Registration	Smart and Sustainable Technologies: Rural and Tribal Development Using IoT and Cloud Computing: Proceedings of ICSST, Springer	2022
58	Md. Rizwan Khan	Intelligent Robotics and Industrial Automation (IRIA)	MUD Over MIMO-OFDM System in UWA Communication in the frequency region 100 Hz to 100 kHz	International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA)	2021
59	Md. Rizwan Khan	Intelligent Systems	Neural Network- Based Receiver in MIMO-OFDM System for Multiuser Detection in UWA Communication	Intelligent Systems: Proceedings of ICMIB	2021
60	Md. Rizwan Khan	Intelligent Communication , Control and Devices	Multiuser Detection for MIMO-OFDM System Using Binary Spotted Hyena Optimizer in UWA Communication	Intelligent Communication, Control and Devices: Proceedings of ICICCD	2021

61	Biswa Ranjan Swain	Applied Electromagnetic s, Signal Processing, & Communication	A Compact Fractal Antenna for Ultra- Wide Band Operation	2nd International Conference on Applied Electromagnetic s, Signal Processing, & Communication (AESPC). IEEE	2021
62	Millee Panigrahi	Advances in Intelligent Computing and Communication	A hybrid model for epileptic seizure classification using wavelet packet decomposition and SVM	Advances in Intelligent Computing and Communication: Proceedings of ICAC	2021
63	Madhusmita Mohanty	Advances in Machine Learning and Computational Intelligence	A study on digital fundus images of retina for analysis of diabetic retinopathy	Advances in Machine Learning and Computational Intelligence: Proceedings of ICMLCI	2021
64	Millee Panigrahi	Intelligent Manufacturing and Energy Sustainability	Evaluation of transfer learning model for mango recognition	Intelligent Manufacturing and Energy Sustainability: Proceedings of ICIMES	2021
65	Sk. Mohammed Ali	Green Technology for Smart City and Society	Electrical Properties of the PVDF-Lead –Free Ceramic-Based Composite Film for Sensor Applications	Green Technology for Smart City and Society: Proceedings of GTSCS, Springer	2020
66	Sumant Ku. Mohapatra	Intelligent and Cloud Computing	Epileptic Seizure Detection Using DWT-and Rule- Based Variants of TSVM with KNN	Intelligent and Cloud Computing: Proceedings of ICICC	2020