

ASPPC 2024 Program Schedule

Day 1: 19th December 2024 (Thu)

08:30 – 10:30	Delegate Arrival, Registration			
10:30 – 11:30	Inaugural Event			
11:30 – 12:00	High Tea			
12:00 – 13:00	Keynote Talk 1: Speaker: Prof. Ram Bilas Pachori, IIT Indore Topic: Multi-channel signal processing methods and their applications in Brain signal classification			
13:00 – 14:30	Lunch Break			
14:30 – 15:30	Keynote Talk 2: Speaker: Prof. Sanjeev Panda, NUS, Singapore Topic: Single/Three-phase inverter control techniques for interfacing renewable energy sources with micro-grid –Parallel/Series connected inverter topologies			
15:30 – 15:45	Tea Break			
15:45 – 17:30	Session 1A: Intelligent Computing Systems Chairs: Prof. Niranjana Ray, KIIT Prof. Rakesh C. Balabantaray, IIIT Bhubaneswar		Session 1B: Multidimensional Signal Processing Chairs: Prof. Deepika Agarwal, NIT, Raipur Prof. Rajat Kumar Giri, IIIT Bhubaneswar	
	Paper ID	Title	Paper ID	Title
	68	Ethereum Fraud Detection: A comparative analysis of supervised learning approach	84	Novel IsOWC System Design Using Hybrid Diversity Technique
	69	Skin Cancer Detection Using CNN and Ensemble Learning	92	FPGA implementation of AIQ based Daubechies filter Bank for Medical Image Retrieval
	85	An optimized Grid computing based Feature selection approaches from Brain Image dataset using Pretrained models	94	Fault Analysis of Aircraft Systems Indicated on a Cockpit Panel by using Image Processing
	103	Autoencoder Integrated Feedforward Neural Network based Intrusion Detection System	155	Sign Language Recognition using GLCM and ResNet50 features with PPCA-based Feature Reduction Approach
	127	Dual Random Phase Encoding Encryption Using Fractional Fourier Transform	121	Performance Improvement of FSO System with OAM Spatial Modulation

Day 2: 20 th December 2024 (Fri)			
09:30 – 10:00	Delegate Arrival, Registration		
10:00 – 11:00	Keynote Talk 3: Speaker: Dr. Pradipta Kumar Roy, ITR Chandipur Topic: Hardware / embedded architectures for deep neural networks		
11:00 – 11:15	Tea Break		
11:15 – 12:30	Session 2A: Intelligent Computing Systems Chairs: Prof. Suvendu Rup, NIT, Raipur Prof. Muktikanta Sahu, IIIT Bhubaneswar		Session 2B: Communication Systems and Beyond Wireless Communication Chairs: Prof. B. Acharya, NIT, Raipur Prof. Sanjeev Kumar Mishra, IIIT Bhubaneswar
	Paper ID	Title	Paper ID
	105	Automated Decision Making System for Bank Loan Approval with Real-Life Dataset	60
	108	Data Analysis in Wireless Sensor Networks with Distributed Self Organizing Map	63
	111	Brain Tumor Detection and Segmentation using SAM integrated YOLOv9 Scheme	74
	118	Enhancing Crop Yield Prediction Accuracy in Precision Agriculture: A Comparative Analysis	81
	126	Diabetic Retinopathy Detection using DWT and NGTDM Features with PCA-Based Feature Reduction Approach	90
			100
12:30 – 13:30	Women in Engineering Session Event Co-ordinator: Prof. Puspanjali Mohapatra, IIIT Bhubaneswar, Prof. Bharati Mishra, IIIT Bhubaneswar Invited Talk: Prof. Devashree Tripathy, IIT Bhubaneswar Topic: Large Language Model Optimization		
13:30 – 14:30	Lunch Break		
14:30 – 15:30	Keynote Talk 4: Speaker: Prof. Linga Reddy Cenkeramaddi, Professor, University of Agder, Norway Topic: mmWave Radar-based Sensing and Applications		
15:30 – 15:45	Tea Break		

15:45 – 17:30	Session 3A: Intelligent Electrical Systems Chairs: Prof. Chinmoy Panigrahi, KIIT Prof. Debani P. Mishra, IIIT Bhubaneswar		Session 3B: Embedded Systems & IoT Chairs: Prof. Satyasai J. Nanda, MNIT Jaipur Prof. Venkata Sridhar T, IIIT Bhubaneswar	
	Paper ID	Title	Paper ID	Title
	50	Investigation of Water Cycle Algorithm in Renewable based Micro Grid	38	Implementation of optical lock through visible light communication using AES
	71	Advancements in Smart Grids: Harnessing AI, IoT, and 5G Integration for Sustainable Energy Management	66	Hybrid Laplace-Gaussian Differential Privacy to Secure Data Aggregation in Edge-IoT Systems
	79	Investigation Analysis of a Bidirectional DC-DC Converter for EV Charging	86	Advancing Color Perception: An IoT-driven Pedagogical System for Visually Impaired Children
	82	Different Predictive Control Methods for DTC Induction Motor Drive: A Concise Review	115	Embedded System for Efficient Brain Stroke Prediction using CSML on PYNQ-Z2
	110	Ridge Regression Approach with Randomized Search CV Technique in Wind Power Forecasting	116	Cluster Head Selection in IoT Networks Using Salp Swarm Optimization
	120	Impact of DG Penetration Level on the Sustainable Operation of Smart Power Distribution Network Under Various Load Conditions		
18:30	Cultural Program followed by Banquet Dinner			
Day 3: 21 st December 2024 (Sat)				
09:00 – 10:00	Delegate Arrival, Registration			
10:00 – 11:00	Keynote Talk 5 Speaker: Dr. Sudhir Dixit Topic: Towards the Internet of Senses: Integrating Human mind, Body, and IoT in 6G!			
11:00 – 11:15	Tea Break			
11:15 – 13:00	Session 4A: Intelligent Electrical Systems Chairs: Prof. Dr. Ajit Kumar Barisal, OUTR Bhubaneswar Prof. Usharani Rout, IIIT Bhubaneswar		Session 4B: Communication Systems and Beyond Wireless Communication Chairs: Prof. Tapas Kumar Patra, OUTR Bhubaneswar Prof. Surya Prakash Singh, IIIT Bhubaneswar	
	Paper ID	Title	Paper ID	Title
	101	Chebyshev polynomial based Harmonic Estimation for Solar Photovoltaic System	15	Fusion based Semi-adaptive Gamma-correction for Dark Image Enhancement

	104	Design of Battery and Ultra Capacitor for stability improvement of Microgrid in constraint to secondary Controller	95	Performance Analysis of Hybrid FSO-RF Link under Diverse Atmospheric Conditions
	125	Solar-powered nine-level quadruple boost inverter with fuzzy logic control	109	Study of MIMO-OFDM System for future Mobile Communication
	151	RGConvNET:A Hybrid Hyperspectral Image Classification Model for Extracting Deep Features with Improved Accuracy	113	An Approach for DFU Classification using VGG-19 and 2D-SSA
	153	Thermal Consequences of Elevated Current Density: Effects on Transformer Longevity and Reliability	119	Effect of Substrate-height on the property of ultra wideband Wilkinson Power Divider
	154	Integration of VLSI with Traditional PID Controller for Temperature Control in Electronic Devices	122	A CPW-fed Hexagonal Broadband CP Antenna for WiMax and WLAN Application
	Session 4C: Intelligent Computing Systems Chairs: Prof. Sabyasachi Patra, IIIT Bhubaneswar Prof. Sanjay Saxena, IIIT Bhubaneswar			
	Paper ID	Title		
	61	Speech emotion recognition using light weight mobilenetv2		
	77	Dynamic DG administration to reduce power system inefficiencies		
	107	Monte Carlo Simulation of Underwater Optical Communication System with Optimized Coefficients		
	112	Optimal Voltage Regulation and Energy Efficiency in Photovoltaic Grid system		
	152	Optimizing Economic Load Dispatch in Thermal Power Plants with Additional Constraints Using Curve Fitting and Artificial Neural Networks		
13:00 – 14:30	Lunch Break			
14:30-15:30	Student Events: Poster Presentation Competition and Membership Drive Program			
15:30 – 16:30	Awards and Closing Ceremony			