



IEEE 3rd International conference on
"Applied Electromagnetics, Signal Processing & Communication"
AESPC-2023
24 - 26 November, 2023



School of Electronics Engineering, KIIT, Deemed to be University, Bhubaneswar, India

Technically Co-Sponsors By IEEE Kolkata Section, IEEE Bhubaneswar Sub-Section, IEEE KIIT Student Branch & IEEE AP / MTT Kolkata Chapter

TRACK-I (ELECTROMAGNETICS/COMMUNICATION)				TRACK-II (VLSI & EMBEDDED SYSTEMS)			TRACK-III (SIGNAL PROCESSING)		
PRESENTATION SCHEDULE ON : 24.11.2023 Time: 11.30 PM - 1.30 PM				PRESENTATION SCHEDULE ON: 24.11.2023 Time : 11.30 PM - 1.30 PM			PRESENTATION SCHEDULE ON: 24.11.2023 Time: 11.30 PM - 1.30 PM		
SESSION CHAIRS: Prof. Jagannath Malik, IIT Patna Prof. S. K Behera, KIIT DU, Bhubaneswar				SESSION CHAIRS: Prof. Biswajit Baral, SIT Bhubaneswar Prof. Srinivas Padhy, KIIT DU Bhubaneswar.			SESSION CHAIRS: Prof. Smita Parija, CVRGU, Bhubaneswar Prof. Sarita Nanda, KIIT DU, Bhubaneswar.		
Google Meet ID:- https://meet.google.com/nqj-oqyx-uwf				Google Meet ID: meet.google.com/omc-opnu-das			Google Meet ID: meet.google.com/kbm-echk-igz		
Time	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name
11:30 to 11:45 AM	100	Niten Kumar Panda	Binary-Coded Frequency Reconfigurable Antenna for Cognitive Radio	39	Arya Maity	A TCAD augmented Machine Learning based Drain Current Model for InGaAs FinFETs	170	Utkarsh Nayak	A Comparison of EV Battery Charging Methods for Power Factor Corrected-LLC Converter
11:45 to 12:00 PM	122	Prabir Ghosh	A High Gain n257 Frequency Band Supported MIMO Antenna for 5G Applications	73	Rudra Sankar Dhar*	Design and Simulation of Gate underlap Strained Cylindrical GAA with High-K Gate Stack	136	Sangsaptak Pal	Composer Identification in Classical Genre
12:00 to 12:15 PM	113	Srinivas Ramavath	Energy Incentive for Packet Relay in Internet of Things Networks Using 5G NR	80	Dr. Rudra Sankar Dhar	Design and Performance Analysis of 3-Fin 08 nm Physical Gate Length SOI FinFETs Employing Gate Stacked High-K Dielectrics	138	Kondepudi Venkata Durga	Automated Diagnosis of Brain Tumor based on Deep Learning Feature Fusion using MRI Images
12:15 to 12:30 PM	41	SHIBANI TRIPATHY	Perturbed pentagon patch MIMO Antenna for 5G sub-6 GHz operation	103	Sadhana Subhadarshini Mohanty	Impacts of Temperature on the Performance of Double Gate Hetero Junction Tunnel Field Effect Transistors (DG-HJ-TFETs)	139	Santosh Kumar Sharma	Integrating Advanced Deep Learning Features with SVM for Pathological Brain Detection: A Novel Hybrid Approach
12:30 to 12:45 PM	77	Yash Ijarwal	Design of a Low Cost Medium-Sized UV Sterilization Box	173	Raj Saha	Performance enhancement of graded CIGS solar cell with MoTe2 as transition layer and BSF contact	143	K. rahul	Enhancing Monkeypox Skin Lesion Detection: A Fusion Approach of VGG 16 and Xception Features with SVM Classifier
12:45 to 1:00 PM							150	Aadiptya Basuli	Improved Breast Cancer detection from ultrasound image using YOLOv8 model

Day 2 Pre-Lunch Session									
TRACK-I (ELECTROMAGNETICS)				TRACK-II (COMMUNICATION)			TRACK-III (SIGNAL PROCESSING)		
PRESENTATION SCHEDULE ON : 25.11.2023 Time: 12.00 AM - 1.30 PM				PRESENTATION SCHEDULE ON: 25.11.2023 Time: 12.00 AM - 2.00 PM			PRESENTATION SCHEDULE ON: 25.11.2023 Time: 12.00 PM - 1.30 PM		
SESSION CHAIRS: Dr. Dhruva Charan Panda, Berhampur University Dr. Abhik Gorai, KIIT DU, Bhubaneswar				SESSION CHAIRS: Prof. Umesh Chandra Samal, KIIT DU, Bhubaneswar Prof. Benudhar Sahu, ITER SOA University, Bhubaneswar			SESSION CHAIRS: Prof. Sanand Kumar, KIIT DU, Bhubaneswar Prof. Smita Parija, CVRGU, Bhubaneswar.		
Google Meet ID:- https://meet.google.com/nqj-oqyx-uw7				Google Meet ID: meet.google.com/omc-opnu-das			Google Meet ID: meet.google.com/kbm-echk-igz		
Time	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name
12:00-12:15 PM	19	MD. Ataur Safi Rahaman Laskar	Compact Slot Antenna Design for TPMS Applications	12	Nachaat Mohamed	Leveraging CPU Utilization Metrics and Zero Trust Architecture for APT Detection	20	Akshya Kumar Sahoo	Effective use of clustering techniques for brain tumor segmentation
12:15-12:30 PM	43	Sarmistha Satrusallya	Design of Antenna Array for 5G Applications	38	Srikanta Das	Re-configurable Optical XNOR to XOR Gate based on Silicon Microring resonator	154	GANESAN P	A Simple Approach to Analyze and Evaluate Image Segmentation Methods based on Image Quality Metrics
12:30-12:45 PM	91	Priharini S	Design and Performance Evaluation of MIMO Antenna for 5G Smartphones	42	Aylapogu Pramod Kumar	Channel Capacity estimation for 5G System using MIMO Multiplexing and PSO	51	Dr.Kakarla.Deepti	COMPARISON OF MACHINE LEARNING METHODS FOR CLASSIFICATION AND DIAGNOSIS OF SKIN DISEASE
12:45-01:00 PM	141	Sandip Ghosal	Deep Learning Approach for Directivity Prediction of Multi-Layered Leaky Wave Antenna	59	Mohammad Asif I. Gandhi	ENHANCING DEMAND FORECASTING ACCURACY THROUGH MARKET TREND ANALYSIS: LEVERAGING NLP ALGORITHMS FOR DATA-DRIVEN INSIGHTS	68	Sujata G. Bhele	Ancient Mural Image Region Regeneration and Filling Using Patch Matching Based on Non-Existent Elements Priority
01:00-01:15 PM	163	Pooja Sahoo	Circular polarized antenna with improved axial ratio bandwidth for GSM application	67	Parameswaran Ramesh	Investigation on BPSK Modulated LoRaWAN for Data Rate Enhancement	95	GAURAV KUMAR PANDEY	Investigating the Efficacy of a Newly Proposed Activation Function on Deep Neural Networks
01:15-01:30 PM				79	Vidhya N	ADBIS: Anomaly Detection to Bolster IoT Security using Machine Learning	115	Manjusree S V	Performance Analysis of YOLOv8, RCNN, and SSD Object Detection Models for Precision Poultry Farming Management
Day 2 Post-Lunch Session									
TRACK-I (SIGNAL PROCESSING)				TRACK-II (ELECTRICAL, CONTROL & INSTRUMENTATION)			TRACK-III(VLSI, DEVICES, CIRCUITS & EMBEDDED SYSTEMS)		
PRESENTATION SCHEDULE ON: 25.11.2023 Time: 4:00 PM - 5.30 PM				PRESENTATION SCHEDULE ON : 25.11.2023 Time: 12.00 AM - 1:45 PM			PRESENTATION SCHEDULE ON : 25.11.2023 Time:4:00 AM- 6:00 PM		
SESSION CHAIRS: Prof. Tejswini Kar, KIIT DU, Bhubaneswar Prof. Arnnapurna Mishra, SIT, Bhubaneswar				SESSION CHAIRS: Dr. Babita Panda, KIIT DU, Bhubaneswar Dr. Umamani Subudhi, SIT, Bhubaneswar			SESSION CHAIRS: Dr. Rudra Sankar Dhar, NIT Mizoram Dr. Pradipta Dutta, KIIT DU, Bhubaneswar		
Google Meet ID:- https://meet.google.com/nqj-oqyx-uw7				Google Meet ID: meet.google.com/omc-opnu-das			Google Meet ID: meet.google.com/kbm-echk-igz		
Time	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name
4:00-4:15 PM	118	Swagatika Nayak	Stability Analysis of Digital Filters With Generalized Overflow and External Disturbance: An IOSS Approach	4	Farid Kerrouche	Novel Three Phases Compact Multilevel Inverter For Electric Vehicles	27	PIDAPARTHY VIJAYA	Influence of Temperature Fluctuations on the Analog and RF Characteristics of Gate-Engineered High-K Gate dielectric Stack SOI Fin-FET
4:15-4:30 PM	120	Aman Dubey	From Pixels to Decisions: A Comprehensive Review of Brain Tumor Classification Techniques and Their Clinical Implications	15	Jyoti Gupta	Hybrid Algorithm for Optimizing Parameter in the Double Diode Model	34	IPSITA JENA	Performance Enhancement of Heterostructure CdTe Solar Cells with TiO2 and CuS Layers: A Multifaceted Exploration of Comparative numerical analysis
4:30-4:45 PM	124	Harshit Lakshakar	Aircraft Defect Localization and Detection Using Object Detection Techniques	17	Hamza Belmadani	Guided Seagull Optimization for Improved PV MPPT in Partial Shading	35	Rajeshwari Mannu	Device performance enhancement using CTSe/CTSse bilayer structure: A numerical analysis
4:45-5:00 PM	128	Mohammed Abdul Nasar	Comparison of the Mixed Norm(LMMN) and LMMN Algorithm with Sign-Regressor in Channel Equalization	47	Smaranika Mishra	Utilizing the Unscented Kalman Filter for Estimating State of Charge in Lithium-ion Batteries of Electric Vehicles	56	Pradeep Kumar Kumawat	Analysis of the Dual Gate Vertical TFET performance with a Dual Gate Oxide Material stacking
5:00-5:15 PM	175	Subhankar Samanta	Medical Image Processing using CNN	54	Subhashree Rout	Smart Technologies for a Sustainable Future: IoT and AI in Renewable Energy	89	Sagnik Sarkar	Perovskite Hole Transport Layers in Tin Sulfide Thin Film Solar Cells: Computational Insights and Analysis
5:15-5:30 PM	157	GANESAN P	Comparative Study of Implementation of Very Deep Super Resolution Neural Network and Bicubic Interpolation for Single Image Super Resolution Quality Enhancement	87	Sandeep Gupta	Arduino and Ultrasonic Sensors based Device for the Sightless Person	133	Neelima K	Proficient Adjacent Error Correcting Codes
5:30-5:45 PM				112	YUVRAJ SINGH	Optimizing Solar Energy Harvesting: Dual-Axis Solar Tracking and Simulation Analysis	174	Dr.A.PramodKumar	Design and Implementation of Partially Static High Frequency DFF for Low Power Applications

Day 3 Pre-Lunch Session						
TRACK-I(COMMUNICATION)				TRACK-II (SIGNAL PROCESSING)		
PRESENTATION SCHEDULE ON : 26.11.2023 Time:11:00 AM- 1:15 PM				PRESENTATION SCHEDULE ON : 26.11.2023 Time:11:00 AM- 12:30 PM		
SESSION CHAIRS: Dr. Koushik Dutta, NSUT, Kolkata Dr. Sasmita Pahadsingh, KIIT DU, Bhubaneswar				SESSION CHAIRS: Dr. Lopamudra Das, SIT, Bhubaneswar. Dr.Swati Swayamsiddha, KIIT DU, Bhubaneswar		
Google Meet ID:- https://meet.google.com/nqj-oqyx-uwf				Google Meet ID: meet.google.com/omc-opnu-das		
Time	Paper ID	Authors Name	Paper Name	Paper ID	Authors Name	Paper Name
11:00-11.15 AM	96	Hirak Keshari Behera	Circularly Polarized S-shaped patch antenna for WLAN and WiMAX application	130	Naga Swetha R	Skin Disease Classification Using Deep Convolutional Neural Network on Jetson Nano Developer Kit
11:15-11:30 AM	102	Bhawna Kankane	CoRe: Coverage Reliability Estimation for Wireless Network Incorporate Multipath Shadowing Effect	148	Dillip Dash	Low RCS Target Detection with Ground Clutter in Multistatic Airborne Radar
11:30 -11:45 AM	109	1.Amruta A.Nikam 2.Dr.Rupali Patil	A Honeycomb-Structured Fractal Multiband Antenna for vehicle communication	37	Rosalin	Time-Varying Proportionate Least Mean Square Algorithm for an Adaptive Noise Canceller
11:45 -12:00 PM	131	Tasmin Mishra	Review on Optical Communication System using Machine Learning	155	GANESAN P	An Effectual Methodology to Objective Quality Assessment for Noisy and Compressed Images using Full and Blind Reference Quality Metrics
12.00 -12.15 PM	165	PRABHAKAR RATH	Achieving Efficient Mobile Location Management through Cost-Effective Particle Swarm Optimization with Reporting Cell Planning.	134	Rasmita Lenka	Improvement of Exemplar Based Inpainting By Enhancement of Patch Prior
12.00 -12.15 PM	171	Dipanjan Dutta	Triple-wideband Metasurface assisted Dielectric Resonator Antenna for High frequency Application	119	Swagatika Nayak	Stability Analysis of Interfered Digital Filters with SOA and EI: An IOSS Approach
12.00 -12.15 PM	137	Dipanjan Dutta	Circularly Polarized Stepped Rectangular DRA For Mid-band 5G application			