



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

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NAAC A++ Accredited

Department of Electronics and Communication Engineering

2023 4th International Conference on Signal Processing and Communication (ICSPC)

IEEE TECHNICALLY SPONSORED

MARCH 23 – 24, 2023

DATE	TIME	SESSION	VENUE
23.03.2023	09.30 a.m – 10.30 a.m	INAUGURATION FUNCTION	ELOHIM AUDITORIUM
23.03.2023	11.00 A.M – 11.30 a.m	KEYNOTE ADDRESS Prof. Nguyen Ha Huy Cuong, Software Development Centre- University of Danang.	GROUND FLOOR SEMINAR HALL
23.03.2023	02.30 p.m – 3.00 p.m	KEYNOTE ADDRESS Prof. Girijesh Prasad, Professor of Intelligent Systems in the School of Computing, Engineering and Intelligent Systems, Ulster University (UU), UK.	FIRST FLOOR SEMINAR HALL
24.03.2023	09.30 a.m – 10.15 a.m	KEYNOTE ADDRESS Dr. T. Shanmuganatham, Professor and Head, Department of Electronics Engineering, Pondicherry Central University, Pondicherry. Dr. Harigovindan V P, Associate Professor, HOD-ECE, National Institute of Technology, Puducherry, Karaikal.	FIRST FLOOR ECE SEMINAR HALL GROUND FLOOR ECE SEMINAR HALL

PLENARY AND CONTRIBUTORY LECTURE

SCHEDULE (DAY 1 – 23.03.2023)

DATE	TIME	TRACK	PAPER ID	PAPER TITLE	VENUE
23.03.2023	11.30 – 12.45 p.m	1	7	A Novel Deep Learning Approach for detection of Sleep Apnea from ECG Signal	ED CELL
			8	Analysis of Gall Bladder & Kidney Stone Using Spectroscopic Technique: A Review	
			23	Skin Cancer Prediction Using Deep Learning Techniques	
			39	Online Sales Prediction in ECommerce Market Using Machine Learning	
			97	Thresholding based Tomato Leaf Disease Classification	
			195	Flight Delay Prediction Using Different Regression Algorithms in Machine Learning	
		2	43	Code Smell Detection Using Ensemble Machine Learning Algorithms	GROUND FLOOR SEMINAR HALL
			59	Battery Management for Electric vehicle using low voltage DCDC converter	
			80	Design of Fuzzy Logic controller for Solar PV fed BLDC Motor with Zeta Converter for Precision Controlled System	
			82	Neural network-based fault classification in multi-level inverters	
			86	An Extensive Literature on Heart sound classification using integrated signal processing and deep learning techniques	
		3	38	A Novel Framework for Network Intrusion Detection in Healthcare Domain	FIRST FLOOR SEMINAR HALL
			65	IoT Based Localization and Tracking by Using MIMO Antenna Technology	
			81	Modelling And Analysis of Mixed Mode EM Emission In EV For Electromagnetic Compatibility	
			84	Performance Evaluation of Circular Patch Antenna with RT Rogers (58V80) substrate at 2.4 GHz for Wi-Fi and Bluetooth Applications	
77	A Robust Deep Learning-based Approach for Network Traffic Classification using CNNs and RNNs				

		4	108	Design Of GPS Antenna for Vehicular Application	CONFERENCE HALL
			1	Design of a Smart Embedded Vision System Based On FPGA For Medical Applications	
			20	Revolutionizing Poultry Farming with IoT: An Automated Management System	
			29	Security and Privacy Threats of IoT Devices: A Short Review	
			32	A Novel Approach for IOT Based Crop Cultivation and Precision Agronomy	
			37	Hybrid Power Management Using Interleaved Landsman Converter Implemented Through Machine Learning	
23.03.2023	3.00- 4.45 p.m	1	53	Deep Neural Networks based Detection and Analysis of Fake Tweets	ED CELL
			61	GLCM based SVM Classifier for Covid19 Detection from Chest X-rays	
			62	Mental Healthcare Analysis using Power BI and Machine Learning	
			71	Plant-Pathogen detection using different Machine Learning Techniques	
			87	Deep Learning Model for Disease Prediction Using Gastrointestinal Endoscopic Images	
			123	A Vision-Based Approach for the Diagnosis of Digital Asthenopia	
		2	147	Design of low power Pass Transistor Logic based adders for Multiplier in 90nm CMOS process	GROUND FLOOR SEMINAR HALL
			151	Design and analysis of frequency synthesizer for Implantable Cardioverter Defibrillator (ICD) in 90 nm Technology	
			152	8-bit SAR low power data converter design in 90nm technology for low frequency signal acquisition	
			181	Generating synthetic dataset for cotton leaf using DCGAN	
			199	Time series forecasting of Ethereum price by FB-prophet	
			204	Analysis of cache memory circuit for Compute in Memory Applications	

		3	140	A Miniaturized Metasurface Based Dielectric Resonator Antenna for Wireless Communications	FIRST FLOOR SEMINAR HALL
			141	Design and Parametric Analysis of Quad Band Metamaterial Absorber	
			142	Comparative Analysis of Graphene Nanoantenna for Different Substrate at Terahertz Frequency	
			169	A Review of Blockchain Technology in Different Sectors: Challenges and Solutions	
			176	Real-Time Suspicious Counter-Flow Detection	
			79	Automatic Vehicle Engine Control System for Inebriate Condition	
		4	44	A Survey on IOT based Air Pollution Monitoring system	CONFERENCE HALL
			75	Enhancing Public Safety through License Plate Recognition for Counterterrorism through Deep Learning Technique	
			76	Real-Time Rail Safety: A Deep Convolutional Neural Network Approach for Obstacle Detection on Tracks	
			154	Smart Assistive Bag for the Visually Impaired	
			160	Internet of Things Control Center	
			214	IOT based Health Monitoring and Tracking in Combat	

PLENARY AND CONTRIBUTORY LECTURE

SCHEDULE (DAY 2 – 24.03.2023)

DATE	TIME	TRACK	PAPER ID	PAPER TITLE	VENUE
24.03.2023	11.00 -12.45 pm	1	139	Gender Detection and Classification from Fingerprints Using Convolutional Neural Network	ED CELL
			127	Optimization of Fine-Tuned Deep learning model for Multiclass Classification of Chest X-Rays	
			162	Modified 2D-UNet for Brain Tumor Segmentation	
			143	Machine Learning, Deep Learning Models for AgroMeteorology Applications	
			187	Human fall detection using Machine Learning and Deep Learning Techniques: A survey	
			197	Anxiety and Fear based Safety detector using KNN Classification Algorithm	
		2	126	Exploring Solutions for Text-to-Speech Synthesis of Low Resource Languages	GROUND FLOOR SEMINAR HALL
			209	Investigation of Machine Learning Techniques and Sensing Devices for Mental Stress Detection	
			224	Effective Detection of Copy Move Forgery Using SURF	
			225	Functional Verification of SPI Protocol using UVM based on AMBA Architecture for Flash Memory Applications	
			227	Real-time classification of Vehicle Logos on Arduino Nano BLE using Edge Impulse	
			261	Design of High-Performance Carry Select Adder using Multiplexer based Logic in 90nm Technology.	
		3	177	Compact Multiband Filter for Wireless Communication	FIRST FLOOR SEMINAR HALL
			190	User Interface of Blockchain based Agri-Food Traceability Applications	
			212	Priority Queue Based Extractive Text Summarizer	
			223	Quad SRR Slot Dual band Antenna for n48/n78 band and WLAN Applications	
			264	Performance analysis of novel coplanar waveguide fed slot antenna for ECG monitoring	
		4	276	Design Of an Autonomous Mower With Height Adjustable Cutting Motor	CONFERENCE HALL
			278	IOT Based Fire Protection System	
279	Design and development of Wireless Sensor Network for Real-time Monitoring and Prevention of Accidents				

				in Hilly Areas	
			298	An Novel Algorithm For Cloud Secure Storage Using Cloud Dispersion And Blockchain System	
			306	An Novel Algorithm For Cloud Secure Storage Using Cloud Dispersion And Blockchain System	
			322	FPGA Based Power Quality Improvement of Grid Connected EV Battery System	
24.03.2023	2.15- 4.00 p.m	1	247	Automatic Disease Classification of Paddy Leaf Images Using Deep Learning Algorithms	ED CELL
			302	Machine Learning Algorithms for Crop Yield Prediction in Real-Time Scenarios	
			309	Comparative Analysis of Glaucoma Diagnosis on Retinal Fundus Images Using AI Techniques	
			310	Early Diabetes prediction with optimal feature selection using ML based prediction Framework	
			339	Deep learning based Compressed Sensing - Radial Basis Functional Neural Network for Image Fusion	
			237	A Novel Ensemble Classifier Framework for Accurate Fetal Heart Rate Classification	
		2	267	Design and Implementation of Low Power Unidirectional Shift Register	GROUND FLOOR SEMINAR HALL
			282	A CRR Based THz Metamaterial Absorber for Biomedical Applications	
			288	Machine Learning Based Fuzzy Logic Approach for Auto Harmonization of Melodies in C Major	
			328	Performance Improvement of Solar Cell Using Modified Boost Converter	
			335	VLSI Implementation of Median Filter for Noise Removal in EMG Signal	
			336	Design Of RISC-V Processing Unit Using Posit Number System	
		3	272	Optimizing MRF foam Damper Parameters using Artificial Neural Networks and Genetic Algorithms for Improved Damping Force Performance	FIRST FLOOR SEMINAR HALL
			286	Rate Maximization of Cell-Edge Users Through Cooperative Non-Orthogonal Multiple Access	
			321	Slotted Hexagonal Ultrawideband Microstrip Antenna (SHUMA) for Telemetry Applications	
323	Performance Analysis of Different Hardware Platforms in Wireless Sensor Networks				
329	A Novel Wireless Radio Technology Paradigm for Next Generation Wireless Networks				