

**4th International Conference on Circuits, Control, Communication and Computing-I4C-2022,
on 21st to 23rd December 2022**

Theme: Smart and Sustainable Technology for Engineering and Healthcare

Conference Programme Schedule

Day 1: 21.12.2022 , Wednesday																													
<p>1. Pre-Conference Tutorial Topic: Cyber Physical Systems</p> <p>Time: 2pm to 5pm Venue: LHC Seminar Hall - I Resource Person: Mr. Raghunath Kulkarni, Sr. Technical Leader, CISCO</p>	<p>2. Pre-Conference Tutorial Topic: Audio Processing</p> <p>Time: 2pm to 5pm Venue: LHC Seminar Hall - II Resource Person: Mr. Shailesh Sakri, Director, Harman International</p>																												
Day 2: 22.12.2022, Thursday																													
<p>Conference Inauguration Time: 10.30am, Venue: ESB Seminar Hall-I</p>																													
<p>Tea Break (11.45am to 12pm)</p>																													
<p>Keynote Address Time: 12pm to 1pm @ESB Seminar Hall-I Speaker: Mr. D B Sreevatsa, Senior Director - R&D, Samsung, Bengaluru</p>																													
<p>Lunch Break (1pm to 2pm)</p>																													
<p>Invited Talk Time: 2pm to 3pm @ESB Seminar Hall-I Resource Person: Dr. Mohan Satyaranjan , CEO, Taqanal Energy</p>																													
<p>Tea Break (3pm to 3.15pm)</p>																													
<p>Oral Paper Presentation Sessions Time: 3.15pm to 5.15pm</p>																													
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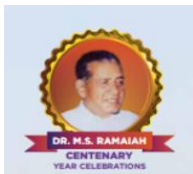


9414	Alcohol Detection and Traffic Sign Board Recognition for Vehicle Acceleration Using CNN	4142	Design and implementation of Polyphase based FHSS modulator using GNU Radio and SDR
2331	Performance Analysis of AI-based Learning Models on Leaf Disease Prediction	4476	Design and Analysis of Vertical Axis Wind Turbine with Optimized Mass of NACA0018 Blade Profile
172	Multi-Class Kannada Character Recognition Using Machine Learning Methods	4496	Bearing Health Condition Monitoring- A Brief Exposition
370	Temperature Controlled Power Supply Design For Magnetically Impelled Arc Butt Welding	6927	Classification of Fundus Images using Modified Stacking Ensemble
5817	Transforming towards 6G: Critical Review of Key Performance Indicators	7992	Investigation of Electric field distribution on a 33kV polymeric insulator under polluted conditions using Finite Element Method
		902	Investigation of High Voltage dielectric barrier and their effect on breakdown voltage using Numerical method

Oral Paper Presentation Sessions-Day2-22.12.2022

Time: 3.15pm to 5.15pm

Track 3: Communication Venue: Hi-Tech Seminar Hall		Track 4: Computing Venue: ESB Seminar Hall-II	
Paper ID	Title	Paper ID	Title
883	Abnormal Human Behavior Detection in Crowded Scenes based on Hybrid Neural Networks	601	Deep Learning based smart traffic light system using Image Processing with YOLO v7
1184	Data analysis of Global Perceived Stress Scores During Covid-19	788	Heart Rate Variability and Machine Learning for Stress Analysis
1250	Qualitative Analysis of Anomaly Detection in Time Series	6903	Scaling Up a Cloud Microservices Simulator
1735	Intruder Laser Turret Defence System With Facial Recognition	1327	Apple Varieties Classification using Light Weight CNN Model
1975	Performance Analysis of Image Fusion Rules Implemented on Nonsubsampled Contourlet Transform Decomposed Images for Pansharping	1407	A Machine learning approach to reduce the diabetes patient's readmission risk using a novel preprocessing technique.
2650	ABC-DE-WOA: A New Hybrid Algorithm for Optimization Problems	1744	Arbitrage: Stock Market Comparative Analysis
2989	SBP: Storage Benchmark Protocol	1748	Phishing Attack Mitigation Using Convolutional Neural Networks
7985	Quad Band Frequency selective Surface with Band Rejection Characteristics	1987	Digital Implementation of the Softmax Activation Function and the Inverse Softmax Function
5682	YOLOv7 based face extraction and novel Eye feature extraction with EYENET	9365	Bispectrum and Convolution Neural Network Based Bearing Fault Diagnosis
4739	Data Driven Machine Learning Model for Audiometric Threshold classification	8944	Linking mental health and gaming using c-support vectors and multilayer perceptrons
		6067	Recognition of Partial Discharge Signatures using Convolution Neural Network



Day 3: 23.12.2022, Friday

Invited Talk

Time: 9.30am to 10.30am @ESB Seminar Hall-I
 Speaker: Prof. Anurag Kumar, Former Director, IISc Bengaluru

Invited Talk

Time: 10.30am to 11.15am @ESB Seminar Hall-I
 Resource Person: Dr. Pratibha Moogi, IBM, Research

Invited Talk

Time: 11.15am to 12pm @ESB Seminar Hall-I
 Speaker: Dr. Manish Saxena, Director Satellite Navigation Programme, ISRO

Tea Break (12pm to 12.05pm)

Oral Paper Presentation Sessions-Day3-23.12.2022

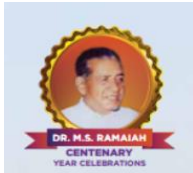
Time: 12.05 am to 1.30pm

Track 1: Circuits
Venue: LHC Seminar Hall -I

Paper ID	Title
7660	Contemporary Research trends in Plant Leaf Disease detection
8728	Active forensic method to detect image forgery
8823	Vasculature Detection in Tympanic Membrane
4010	Real Time Face classification and Shape based feature extraction with Deep Neural networks
705	Optimal Design of Riesz Fractional Order Digital Differentiator using Arithmetic Optimization Algorithm for QRS Complex Detection
2126	Ring Oscillators based All Digital Phase Locked Loop: A Comparative Study
2866	Women Safety System
5833	Contactless Fog based Handwash Kit for COVID Safety
8068	A Novel Fall Detection System using Mediapipe
9222	Driver Emotion Analytics on In- Vehicle Gesture Control System

Track 2: Control
Venue: LHC Seminar Hall -II

Paper ID	Title
9158*	Design and Performance Analysis of Rectangular Microstrip Patch Antenna for Wireless Applications
7932	R Peak detection using fractional Fourier transform and Linear Discriminant Analysis
8450	Novel methods to characterize the quality of food grains by using horn antenna and continuous flow method
1622	Active Front End Topology Based Three Phase Inverter
9522	Fault Detection Of Pms Motor Mated To Gear Box By Monitoring Inverter Input Currents
9981*	Design and Simulation of Microstrip Patch Antenna for Wireless Communication Systems
2476	Classification of Ventricular Arrhythmia using Machine Learning and Deep Learning Techniques
3443	Machine Learning based Classification of Welded Components
1365	State Feedback Controller Design via an Algebraic Approach for Damping Enhancement in a Large Interconnected Electric Power System
2620	Detection and Prediction of Lung Cancer Employing Image processing and Machine Learning techniques



Oral Paper Presentation Sessions-Day 3: 23.12.2022

Time: 12.05pm to 1.30pm

Track 3: Communication
Venue: Hi-Tech Seminar Hall

Paper ID	Title
6079	Development of Piezoelectric Biosensors for Pathogen Detection
7199	Freeze of Gait and Fall Detection in Parkinson's Patients
8161	Survey on Security Risks in 5G Private Industrial Networks
8694	A Novel Framework For Network Based Secure Message Transmission Based On Fragmentation And Cryptography
8824	LoRA-IoT based Intelligent Healthcare Device for Physically Challenged People in Hospital Application using Artificial Intelligence
8829	Prospects of Ant Colony Optimization(ACO) in various domains
8872	A Hybrid Qualitative and Quantitative Approach for Automatic Short Answer Grading using Classification Algorithms
9657	StaVen: A secure and lightweight PWA for traffic facilitation
9831	Optimization algorithm-enabled handover management for decision making in 5G technology
1814	Disease Detection of Plant Using Leaf Images and Convolutional Neural Networks
2289	Visual Cryptographic Permuted Sampling based Binary Image Watermarking
5363	Implementation of Carlson approximation based Fractional Order Butterworth Lowpass Filter using Differential Voltage Current Conveyor

Track 4: Computing
Venue: ESB Seminar Hall-II

Paper ID	Title
4866	Botnet Forensic Analysis in Software Defined Networks using Ensemble Based Classifier
4969	Machine Learning based framework to predict the Network Usage in Smart Parking applications
5672	Application of AI Models in Agriculture
5815	Cnn Based Personal Assistive System For Deaf-Blind
5845	Deep Learning for Alzheimer's Disease Detection using Multimodal MRI-PET Fusion
5931	Social Distance Detector Using Computer Vision and Deep Learning to Combat COVID-19
5954	An in-depth investigation of cyber-attack and cyber security : emerging trends and current events
6052	Reverse Logistics (RL) Practices Toward Sustainable Change- A case of the Computer Hardware Industry in India.
6510	Blockchain based Digital Record Storage and Security for Education using Polygon and IPFS
9892	Kidney Abnormalities Detection and Classification Using CNN-based Feature Extraction



Day 3: 23.12.2022 Lunch Break (1.30pm to 2.30pm)

Oral Paper Presentation Sessions-Day3-23.12.2022

Time: 2.30pm to 5.15pm

**Track 3: Communication
Venue: Hi-Tech Seminar Hall**

Paper ID	Title
3070	An Efficient Method to Minimize the Depth Estimation Error in Melanoma Skin Cancer Classification
3573	Emulating Smart Devices for IoT Honeynet
4898	Medical Assistance for Alzheimer's Disease Using Smart Specs
5306	Survey on Congestion Control Approaches in 4G/5G Cellular Networks
5304*	Efficient Transmission of Secure Images with OFDM using Chaotic Encryption
7048	Augmented Reality Applications for Special Kids
4649	Mitigation of DDoS Attack in SDN using Table Miss-entry
5021	Raking Published Images and Bidding for Corporate Purpose.
8828	Performance Study of Cloud Connected Non-Invasive Ventilator with Interactive Web Portal

**Track 4: Computing
Venue: ESB Seminar Hall-II**

Paper ID	Title
7494	Stock Prediction Model using Seq2Seq and Bi-directional LSTM
8045	Stock Market Analysis and Forecasting Using Long Short Term Memory
8207	Comparison of Machine Learning Algorithms for EMG based Muscle Function Analysis
8384	Automatic Detection of Sleep Stages Using Deep Learning Algorithm
956	Using neural networks to map context features to probability distributions
3818	A Blockchain-Based Framework for Building and Sharing Machine Learning Models
4359	Hybrid Machine Learning Model Using Particle Swarm Optimization for Effectual Diagnosis of Alzheimer's Disease from Handwriting
9269	Skin cancer classification using deep learning
7091	A Tenable Approach to Detect Brain Haemorrhage Using Deep Learning
1571	Multi-Layer Ensemble Deep Reinforcement Learning based DDoS Attack Detection and Mitigation in Cloud-SDN Environment

CONCLUSION