

11th Intl. Conference on Embedded Systems Devices and Computing (ESDC)
Technically Co-sponsored by IEEE
Host: IIIT Sri City

Day 1: Thursday, 4th May 2023

| No. | Time | Event/ Speaker | Title/ Remark |
|------|--|---|--|
| R. | 12:00 | Conference Registration | |
| F.1 | 1:00 PM | Lunch | |
| 1. | Inauguration Ceremony | | |
| 1.1 | 2:00 PM | Dr. Hrishikesh Venkataraman | Welcome Note |
| 1.2 | 2:05 PM | Led by Dr. Priyanka Dwivedi | Lighting the Lamp |
| 1.3 | 2:10 PM | Prof. G. Kannabiran, Director | Presidential Address |
| 1.4 | 2:20 PM | Address by IEEE Hyderabad Chair | IEEE Address |
| 1.5 | 2:30 PM | TBD | KeyNote Address |
| 1.6. | 3:10 PM | Prof. Huan Nguyen, (London Digital Twin Res. Center, UK) | Digital Twin for Industry 4.0 |
| T.1 | 3:30 PM | Tea/Snacks Break | |
| 2. | Session on Embedded and Communication Session Chair: Dr. Raja Vara Prasad | | |
| 2.1 | 3:50 PM | Paper ID 61 | Investigation of RF-based networking for underwater wireless sensor networks using dynamic cluster head selection strategy |
| 2.2 | 4:10 PM | Paper ID 72 | Dynamic routing algorithm to normalize the routers utilization in mesh based NoC |
| 2.3 | 4:30 PM | Paper ID 20 | Comparative Study of Radiation Effect on 5 nm Stacked Nanosheet and Fork-sheet FET |
| 2.4 | 4:50 PM | Paper ID 86 | Ground Robots for Disaster Response: A Review |
| 2.5 | 5:10 PM | Paper ID 76 | Algo Trading - A New Paradigm in the Stock Trading |
| T.2 | 5:30 PM | Tea/Snacks Break | |
| 3. | Session on AIML Session Chair: Dr. Anish Chand T | | |

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| 3.1 | 5:50 PM | Paper ID 19 | Hybrid Facial Expression Analysis Model using Quantum Distance-based Classifier and Classical Support Vector Machine |
| 3.2 | 6:10 PM | Paper ID 94 | Video Label Enhancing and Standardization through Transcription and Wikild Mapping Techniques |
| 3.3 | 6:30 PM | Paper ID 60 | Learning Semantic Representations and Discriminative Features in Unsupervised Domain Adaptation |
| 3.4 | 6:50 PM | Paper ID 67 | Remote Sensing Cloud Removal using a Combination of Spatial Attention and Edge Detection |
| | 7:10 PM | Short Break | |
| 3.5 | 7:15 PM | Paper ID 29 | UAV and UGV Assisted Path Planning for Sensor Data Collection in Precision Agriculture |
| 3.6 | 7:30 PM | Invited Talk by Prof. Swarup Bhunia, Univ. of Florida, USA. | _____ |
| F.2 | 8:30 PM | Dinner | |

Day 2: Friday, 5th May 2023

| No. | Time | Event/ Speaker | Title/ Remark |
|------------|----------|--|---|
| 4.1 | 9:00 AM | Dr. Sudharshan Jayabalan, IEEE | Welcome for Day 2 and summary of IEEE ESDC Papers |
| 4.2 | 09:10 AM | Mr. Nagaraju Chikoti | Micron Technologies |
| 5. | | Session on AIML Session Chair: Dr. V. Jayaprakashan | |
| 5.1 | 09:40 AM | Paper ID 42 | Deep Neural Network Based Multi-Object Detection for Real-time Aerial Surveillance |
| 5.2 | 10:00 AM | Paper ID 55 | A NOVEL GRID CNN FOR PREDICTION OF HEART DISEASE |
| 5.3 | 10:20 AM | Paper ID 66 | Relativistic GAN using Receptive Field Block for Single Image Super-Resolution with improved Perceptual Quality |
| 5.4 | 10:40 AM | Paper ID 80 | Detection of Multi-varieties of On-tree Mangoes using MangoYOLO5 |
| T.3 | 11:00 AM | Tea/Snacks Break | |
| 6. | | General Session Session Chair: Dr. Sudharshan Jayabalan | |

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| 6.1 | 11:10 AM | Paper ID 63 | Impact of Pruning and Quantization: A Light Weight Multi-Sensor Pothole Detection System |
| 6.2 | 11:30 AM | Paper ID 32 | Design and FPGA Implementation of an Efficient Architecture for Noise Removal in ECG Signals using Lifting based Wavelet Denoising |
| 6.3 | 11:50 AM | Dr. Sreeja SR and Vijay Nair | Tutorial on Data Analytics |
| F.3 | 12:50 - 2 PM | Lunch Break | |
| 7.1 | 2:00 PM | Prof. Chandrashekhar, IIT Madras | |
| | | Session on: Underwater Technologies Session Chair: Ms. Naga Jyothi, NIOT | |
| 7.2 | 2:30 PM | Paper ID 65 | Underwater Object Detection using Synthetic Data |
| 7.3 | 2:50 PM | Paper ID 70 | Battery Modeling and Performance Analysis of Time Varying Load using Simulink |
| 7.4 | 3:10 PM | Paper ID 71 | ML based techniques for Prediction of Ocean Currents for Underwater Vehicles |
| T.4 | 3:30 PM | Tea/Snacks Break | |
| 8. | 3:30 - 5:10 PM | Poster/Demo Session | |
| 9. | | Presentation Session Session Chair: Dr. Rakesh Sanodiya | |
| 9.1 | 5:10 PM | Paper ID - 12 | Multiclass Altitude and Rotation Invariant Object Detection Using Slicing Objectness Loss (SOL) For Images with Complex Background |
| 9.2 | 5:25 PM | Paper ID - 50 | A novel Optimization technique in 5G based IoVs using hybrid Fuzzy Weight-NSGA Scheme |
| 9.3 | 5:40 PM | Paper ID - 81 | Video Understanding : Tagging of Videos through Self Attentive Learnable Key Descriptors |
| 9.4 | 6:00 PM | Paper ID - 83 | The Power of Pre-trained Transformers for Extractive Text Summarization: An Innovative Approach |
| 9.5 | 6:15 PM | Paper ID 62 | Substrate Noise Evaluation and Reduction of N-MOSFET Using Optimized Silicone-On-Insulator based on Seagull optimization algorithm |
| F.4 | 6:30 - 8:30 | Conference Banquet Dinner | |

Day 3: Saturday, 6th May 2023

| No. | Time | Event/ Speaker | Title/ Remark |
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| 10. | 9:00 AM | Dr. Divyabramham Kandimalla Also, Session Chair | Welcome for Day3 and Plan |
| 10.1 | 09:10 AM | Mr. Ranjeet Deshmukh | Intelligent Transportation System: Indian Context |
| 10.2 | 09:40 AM | Paper ID 87 | A Review Paper on Contour Estimation Techniques in High-Resolution Automotive Radars |
| 10.3 | 10:00 AM | Paper ID 98 | Traffic Congestion and Emergency Vehicle Responsive Traffic Signal Control in Resource Constrained Environment |
| 10.4 | 10:20 AM | Paper ID 11 | Diabetic Retinopathy classification through fundus images using Deep Learning |
| T.5 | 10:40 AM | Tea/Snacks Break | |
| 11. | | Session on: Intelligent Devices Session Chair: Dr. Siva Kotam Raju | |
| 11.1 | 10:50 AM | Dr Ramesh Kumar & Dr. Manoj Mujumdar | Tutorial on Nano-Electronics |
| 11.2 | 11:30 AM | Paper ID 04 | Scalp EEG-based Classification of Disorder of Consciousness States using Machine Learning Techniques |
| 11.3 | 11:50 AM | Paper ID 10 | Design of Improved Content Addressable Memory Using QCA Technology |
| 11.4 | 12:10 PM | Paper ID 31 | Effects of Ferro-thickness and Temperature on Electrical Performance of Si:HfO ₂ based NC-FinFET |
| 11.5 | 12:30 PM | Paper ID 43 | VLSI Architecture of Generalized Pooling for Hardware Acceleration of Convolutional Neural Networks |
| 11.6 | 12:50 PM | Paper ID 73 | GPS-Aided Auto Navigation System for Autonomous Vehicles |
| 11.7 | 13:10 | Director/ Chairman | Valediction |
| 11.8 | 13:20 | Dr. Priyanka Dwivedi | Vote of Thanks |
| F.5 | 13:30 - 14:30 | Lunch and Closure | |