**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 29 | | UAV and UGV Assisted Path Planning for Sensor Data Collection in Precision Agriculture | |
| 2.2 | 4:10 PM | | Paper ID 61 | | Investigation of RF-based networking for underwater wireless sensor networks using dynamic cluster head selection strategy | |
| 2.3 | 4:30 PM | | Paper ID 72 | | Dynamic routing algorithm to normalize the routers utilization in mesh based NoC | |
| 2.4 | 4:50 PM | | Paper ID 73 | | GPS-Aided Auto Navigation System for Autonomous Vehicles | |
| 2.5 | 5:10 PM | | Paper ID 86 | | Ground Robots for Disaster Response: A Review | |
| **T.2** | 5:30 PM | | **Tea/Snacks Break** | | | |
| **3.** | **Session on AIML**  **Session Chair: Dr. Anish Chand T** | | | | | |
| 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 WikiId 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 | |
| 3.5 | 7:10 PM | | Paper ID 76 | | ALGO TRADING – A NEW PARADIGM IN THE STOCK TRADING | |
|  | 7:30 PM | | Short Break | |  | |
| 3.6 | 7:40 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** |
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| 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** | |
| 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](mailto:divyabramham.k@iiits.in)  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 ofImproved 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:HfO2 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 20 | Comparative Study of Radiation Effect on 5 nm Stacked Nanosheet and Fork-sheet FET |
| 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 | |