

## Programme Schedule

**Day 1: 08.10.2021 (Friday)**

### Track 2: Embedded and Communication Systems

| Time                         | Programme Schedule   |  |   |  |
|------------------------------|--|--|---|--|
| 9:30 AM – 10:30 AM           | Inaugural Session (MS Teams Link - <a href="https://bit.ly/3CVOzjF">https://bit.ly/3CVOzjF</a> ) |  |   |  |
| MS Teams Link for FN session | <a href="https://bit.ly/3zQckaV">https://bit.ly/3zQckaV</a>                                      |  | <a href="https://bit.ly/3a65ELH">https://bit.ly/3a65ELH</a> |  |
|                              | PID  | Paper Title  | PID   | Paper Title  |
| 11:20 AM – 11:30 AM          | 395  | Towards Improving Patient Health Monitoring System using Machine Learning and Internet of Things                       | 58  | Smart Covid-Assist Bot using Image Processing  |
| 11:30 AM – 11:40 AM          | 400  | Single Input Stereo HDR Imaging using Deep Learning  | 196   | Gloves and Computer Vision based Assistive System for the Deaf and Dumb                            |
| 11:40 AM – 11:50 AM          | 448  | A Physician Assisting COVID-19 Diagnosis System to Categorize Positive Cases using Radiology Images                    | 211   | Neural Network Based Heart Disease Prediction  |
| 11:50 AM – 12:00 PM          | 457  | Deep Learning Architectures for Improving Effectiveness of Covid Detection – A Pilot Study                             | 235   | An Effective Utilization of Optimal Deep Learning Model Based Student Performance Prediction       |
| 12:00 PM – 12:10 PM          | 480  | Revisiting Derivative Based Methods on QRS Detections from an ECG Signal   | 290   | Gabor Wavelet based Urban change detection for remotely sensed data with accuracy assessment       |
| 12:10 PM – 12:20 PM          | 529  | Development of low rank sparse matrix decomposition for improving spatial and temporal resolutions of MRI medical data | 344   | Monitoring of Hydroponics Plant and Prediction of Leaf Disease using IoT                           |
| 12:20 PM – 12:30 PM          | 552  | Hyperspectral Image Classification using Ensemble Average Method   | 370   | An Improved Clustering Scheme for Underwater Sensor Network Using Bayesian Linear Regression       |
| 12:30 PM – 12:40 PM          | 561  | Classification of Remotely sensed Images using Supervised Methods  | 391   | Contactless Attendance Tracking using Face Recognition and Sensor based Techniques: A Pilot Study. |
| 12:40 PM – 12:50 PM          | 502  | Accident detection and severity analysis using deep learning   | 394   | Disease Detection in Tomato Leaves using Machine Learning and Statistical Feature Fusion           |

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|-----------------------------------|--|--|---|---|
| 12:50 PM –<br>2:00 PM             | <b>Lunch Break</b>   |  |   |   |
| 2:00 PM –<br>2:50 PM              | Keynote Address: Dr. Pei Xiao Professor Wireless Communications, Institute for Communication Systems, home of 5G Innovation Centre (5GIC) University of Surrey, UK |  |   |   |
| MS Teams Link for Keynote session | <a href="https://bit.ly/3oqhI2J">https://bit.ly/3oqhI2J</a>  |  |   |   |
| MS Teams Link for AN session      | <a href="https://bit.ly/39U9FCJ">https://bit.ly/39U9FCJ</a>  |  | <a href="https://bit.ly/2Y7b7iW">https://bit.ly/2Y7b7iW</a> |   |
| 2:50 PM –<br>3:00 PM              | 533  | Signtalk: Sign Language to Text and Speech Conversion  | 85  | Optimization of Multi-Band Antenna for Wireless Communication Systems Using Genetic Algorithm |
| 3:00 PM –<br>3:10 PM              | 556  | A triple band antenna for TETRA, GPS and WiMaX applications  | 329   | Wearable Reconfigurable Antenna for IoT Applications  |
| 3:10 PM –<br>3:20 PM              | 559  | Study of MIMO Antenna at Terahertz Frequency   | 356   | Asymmetric fed Strip connected SRR Antenna for WLAN Application                               |
| 3:30 PM –<br>3:40 PM              | <b>Break</b>   |  |   |   |
| 3:40 PM –<br>3:50 PM              | 560  | Design and Implementation of H-Shaped fractal antenna for UWB Applications   | 407   | A Novel Compact Slotted Pentagon Shaped Patch Antenna For Ultra-Wideband Applications         |
| 3:50 PM –<br>4:00 PM              | 136  | Fifth Generation Networks – Issues and Challenges  | 412   | Gain Enhancement of Circular Patch Antenna Using SRR Array                                    |
| 4:00 PM –<br>4:10 PM              | 237  | An Energy-Efficient Adaptive Mayfly Optimization Algorithm based Optimal Routing in Wireless Sensor Network for Military Application | 455   | Hexagonal slotted frequency reconfigurable antenna for wireless applications                  |
| 4:10 PM –<br>4:20 PM              | 284  | Overview of RFID Security and its Applications   | 483   | A Defected Ground Structure (DGS) Antenna for WiMAX applications                              |
| 4:20 PM –<br>4:30 PM              | 331  | Towards Building Robust Intrusion Detection System in Wireless Sensor Networks using Machine Learning and Feature Selection          | 504   | A Novel Compact Antenna with Band Notching Characteristics for UWB Applications               |
| 4:30 PM –<br>4:40 PM              | 251  | Bidirectional Smart Grid Communication Platform with Network Devices: A Case Study   |   |   |

**Day 2: 09.10.2021 (Saturday)**

| Time                         | Programme Schedule   |  |   |  |
|------------------------------|--|--|---|--|
| MS Teams Link for FN session | <a href="https://bit.ly/3kU9j5p">https://bit.ly/3kU9j5p</a>  |  | <a href="https://bit.ly/3kQEmyW">https://bit.ly/3kQEmyW</a> |  |
| 10:00 AM – 10:10 AM          | 446  | Design and validation of CAN protocol with double encryption in electric vehicle applications  | 168   | Non-contact-based Recognition System in Low Power SoC Board using Raspberry pi for ATM Applications during COVID |
| 10:10 AM – 10:20 AM          | 451  | A Novel Hybrid CMOS-Memristor Based 2-Bit Magnitude Comparator using Memristor Ratioed Logic Universal Gate for Low Power Applications | 197   | Development of School Bus Monitoring System using IoT  |
| 10:20 AM – 10:30 AM          | 463  | Sailor Integral System using Elastic Cloud Compute Module  | 212   | Arduino Based Visible Light Communications Between Two Devices using Lifi Technology                             |
| 10:30 AM – 10:40 AM          | 576  | Design Thinking based Method for Measurement of Creatinine using Chrono Amperometry in Human Blood Plasma                              | 424   | Delay Minimization and Evaluation in Logic Paths of RC Interconnects by Unified Logical Effort                   |
| 10:40 AM – 10:50 AM          | 133  | Performance Analysis of MIMO-OFDM Transceiver using Hierarchical Modulation at the Receiver Side                                       | 454   | Development of an IoT based Integrated Sensor Fusion System to Analyze the Air Pollution Level                   |
| 10:50 AM – 11:00 AM          | 135  | Automatic Hand Sanitizing Glove  | 581   | Towards Enhancing E-health Monitoring System using IoT   |
| 11:00 AM – 11:10 AM          | 141  | Peltier Based Temperature Controlled Smart Mini Refrigerator   | 120   | Smart Audio Glove for Deaf and Dumb Impaired   |
| 11:10 AM – 11:20 AM          | 513  | Design of an Epsilon Shaped Multiband Frequency Reconfigurable Antenna for Wireless Applications                                       | 563   | Vision based Intelligent Smart Security System   |
| 11:20 AM – 11:30 AM          |  |  | 418   | SMB: An Smart Featured Medicine Device for Patient Monitoring  |
| 4:30 PM – 5:00 PM            | <b>Closing Remarks</b> ( <a href="https://bit.ly/3CV0zjF">MS Teams Link - https://bit.ly/3CV0zjF</a> ) |  |   |  |