

Programme Schedule

**2026 INTERNATIONAL CONFERENCE ON WIRELESS COMMUNICATIONS SIGNAL
PROCESSING AND NETWORKING (WiSPNET)**

Day 1: 17th March 2026 (Tuesday)

8:15 am-9:00 am

Registration

9:00 am-9:30 am

Inauguration

9:30 am-10:15 am

Keynote 1: Cellular Evolution to 6G - An India Technology Perspective
Dr. R. David Koilpillai, Professor, Department of Electrical Engineering
IIT Madras

10:15 am-10:45 am

Tea-break

10:45 am-11:45 am

Keynote 2: Wireless Networks in Automotive Connected Solutions
Mr. Karthikeyan B, Director, Connectivity Platforms
VOLVO Group, Bangalore

12:00 pm-1:15 pm

Lunch

1:30 pm-3:00 pm

Paper Presentation - I

Session No.

Track

Session Chair(s)

1

**Next-Generation Wireless Systems (5G, 6G,
and Beyond)**

**Dr. S. Umamaheswari &
Dr. N. Edna Elizabeth**

2

Assistive, and Human-Centric Applications

**Mr. Vamsikrishna Lella &
Dr. R. Rajavel**

3

**Artificial Intelligence, Data-driven, and
Intelligent Networks**

**Dr. G. Anushiya Rachel &
Dr. M. P. Actlin Jeeva**

3.00 pm-3:15 pm

Tea-break

End of Day-1 proceedings

Day 3: 19th March 2026 (Thursday)

9:00 am-10:15 am

Paper Presentation - III

Session No.

Track

Session Chair(s)

7

Antennas, RF, Microwave and VLSI Systems

Dr. P. Vijayakumar &
Dr. B. Partibane

8

Signal and Image Processing, Computer
Vision

Dr. V. Sherlin Solomi &
Dr. S. Hanis

10:15 am-10:45 am

Tea-break

10:45 am-12:00 pm

Keynote 6: Autonomous Networks: A Roadmap
Dr. Paul Harvey
Associate Professor, School of Computing Science
University of Glasgow, Scotland

12:00 pm-1:15 pm

Lunch

1:30 pm-2:45 pm

Keynote 7: Serverless IoT for IoT-enabled Applications
Dr. Shajulin Benedict
Associate Professor, Department of CSE
IIT Kottayam, Kerala

2:45 pm-3:00 pm

Valedictory

3:00 pm-3:15 pm

Tea-break

Technical Papers Presentation Schedule

Session 1	Track 1: Next-Generation Wireless Systems (5G, 6G, and Beyond)
Date / Time	17 March 2026 (Tuesday) / 1:30 PM – 03:00 PM
Venue	Central Seminar Hall
Chair(s)	Dr. S. Umamaheswari , Associate Professor, Department of Information Technology, Madras Institute of Technology, Chennai Dr. N. Edna Elizabeth , Professor, Department of ECE, SSN College of Engineering
11	Real-Time Cryptojacking Threat Mitigation Using Anomaly and Behavioral Analysis <i>N. R. Sathis Kumar, N. Lakshmikar Reddy, D. Maruthi Naidu, Allu Chenna Kesava Naidu, J. Jitendra Prasad Reddy, Vignesh Kumar M</i>
30	Fog assisted Federated Learning based Sybil Detection and Prevention Framework for 5G-enabled VANETs <i>A. Devi, S. Ohmshankar, D. Palani, A. Amirthasaravanan, Sanchith Shanmugha Sundaram R, E. Abinaya</i>
160	Congestion Control in Cognitive Radio Networks: From Classical Methods to Intelligent Approaches- A Survey <i>Sanjeetha Gowthaman, P. T. V Bhuvaneswari, Vidhya N, Bino J, Parameswaran Ramesh, Shabana Parveen M</i>
174	Novel Security Solution for IoT Devices Using PUF Based Authentication and Encryption <i>Jay Akash H, Poovarasan A, S. Sindhukavi</i>
283	Energy-Efficient Traffic Prediction for Green 6G Networks Using a Shallow Neural Network <i>D. Kiruthika, N. Vinothini, R. Tharaniya, B. Mukilan, M. Janardan, G. Ananthi</i>
714	A 5G/6G-Based Communication Framework for Large-Scale UAV Swarms <i>Kayalvizhi C, Rajesh G, Murugan R, Kaviyarasu A</i>
1050	Energy-neutral Optimized Cluster Head Selection in Wireless Sensor Networks using Metaheuristic Algorithms <i>Kurapati Aakash, Anju S Pillai</i>
1265	Robust Deep Learning Based Channel Estimation Using Defensive Distillation Under Adversarial Attacks for 5G and Beyond Networks <i>T. Padmavathi, B. Anitha, R. Prakashkumar</i>

Session 2	Track 9: Assistive, and Human-Centric Applications
Date / Time	17 March 2026 (Tuesday) / 1:30 PM – 03:00 PM
Venue	ECE Seminar Hall
Chair(s)	Mr. Vamsikrishna Lella , <i>Discipline Team Lead, Valeo India Private Limited.</i> Dr. R. Rajavel , <i>Associate Professor, Department of ECE, SSN College of Engineering.</i>
188	Design and Implementation of a Low-Cost Real-Time EMG-Based Prosthetic Arm Using Support Vector Machine <i>Sherwin J Clitus, Sutharsan RA, Shanthapriya</i>
224	Cubature Kalman Filter Based Vehicle Sideslip Angle Estimation Using a Nonlinear 3-DOF Model <i>Joy Christina J, Meenu S, Dhanushya R, Rajeshkumar J, Tharaniya R, Ananthi G</i>
260	Graph Neural Network Based Skin Lesion Classification <i>Moorthi S, Senthil Kumar Thangavel, K Somasundaram</i>
491	SepsisGuard - AI-Powered Predictive Model for Early Detection of Sepsis <i>V. Lavanya, S. S. Muralikarthick, M. Saferul Hasan, S. Srikanth</i>
665	CNTRH-14T: A CNT Radiation Hardened 14T SRAM Cell for Space Mission Application <i>Perisetty Moulyanjani, Mukku Pavan Kummar</i>
1049	Dynamic Priority Resource Selection for Real-Time Task Scheduling in Hospital Edge Systems <i>Devashish G, Murugaraj G, Anju S Pillai</i>
1105	FD-HSM: Integrating Feature Diversity and Hierarchical Semantic Modeling for RS Image Captioning <i>Swadhin Das, Raksha Sharma</i>
1135	Design and Implementation of ANC in Amplifier for Sleep Enhancement <i>Noorjahan M, Abishekraj B, Dinesh Kumar S, Anbuvel S, Karuppaiah R</i>
1173	A Real-Time, Privacy-Preserving Approach for Cognitive Strain Detection Using Micro-Temporal Eye Behavior <i>Kritika Agrahari, G. Anitha</i>

Session 3	Track 6: Artificial Intelligence, Data-driven, and Intelligent Networks
Date / Time	17 March 2026 (Tuesday) / 1:30 PM – 03:00 PM
Venue	Microwave Laboratory
Chair(s)	Dr. G. Anushiya Rachel , <i>Assistant Professor, Department of Computer Science and Engineering, Shiv Nadar University, Chennai.</i> Dr. M. P. Actlin Jeeva , <i>Assistant Professor, Department of ECE, SSN College of Engineering</i>
12	Deep Learning Based OFDM Modulation Classification Using Hybrid CNN-LSTM Models with Noise-Aware Evaluation <i>S. Nikhil, Sudiksha Samanta, Senthil Kumaran R</i>
159	Early Detection of PCOS in Women using AI-based Ultrasound Image Analysis: A Comprehensive Review with Comparative Experimental Study <i>Yathapu Tejaswini, Koduru Chandana, Prabu M, Sindhu Ravindran, Vikneswaran Vijejan, Saranya S</i>
1024	CivicComp A Hindi–English Corpus for Automated Civic Complaint Categorization <i>Shyam Tripathi, Kothamsu Hridayesh, K. Ashwini</i>
1171	Assessing the Impact of Feature Dimensionality on IoT Intrusion Detection <i>M Thilaga, Kirubavathi G, Anagha P, Venkateswaran Radhakrishnan, Lakshmi Narayanan Padmanaban</i>
1200	An AI Comprehensive Framework for Enhancing Usability integrating in Human–Computer Interaction Systems <i>Akhil Chowdary Chalasani</i>
1204	Performance Analysis of AI-Driven GPS Spoofing and Mitigation System <i>Hanuman M, Gautham SDV, Mohan Kumar D, Menakadevi N, Gandhiraj R</i>
1218	Cross-Dataset Binary and Ordinal Diabetic Retinopathy Classification with Deep Learning and Statistical Evaluation <i>Presitha M, K. Somasundaram</i>
1228	Towards Developing a Wearable Device to Predict Epileptic Seizures using ECG Signals <i>Ananya P M, Sriram A, Joshua John Britto, C. Santhosh Kumar, Pooja Muralidharan</i>

Session 4	Track 3: VLSI Design and Nanotechnology
Date / Time	18 March 2026 (Wednesday) / 10:45 AM – 12:15 PM
Venue	Central Seminar Hall
Chair(s)	Dr. V. Vaithianathan , Associate Professor, Department of ECE, SSN College of Engineering Dr. G. Durga , Associate Professor, Department of ECE, SSN College of Engineering
173	A Dual-Mode, Generative-Refined Framework for Real-Time and High-Accuracy Geospatial Pothole Monitoring <i>M. Vijay, Sri Harsha Kota, Surya Narayana Pratap Daka, Saiteja Muvvala, Sasank Satya Pavan Sai P</i>
278	Design and Implementation of Power Efficient SERDES Architecture <i>Halmandge Aishwarya Bhimashankar, Papanasam E</i>
282	A Dual-Channel ZnO–In₂O₃ FET Sensor for Simultaneous Detection of Acetone and Toluene: Modeling and Simulation Using COMSOL Multiphysics <i>Shaik Sai Sadhik, S. Teena Mrudula, Rayala Bhavya, Rakesh Bhavanasi, Bhargav AllaI, K. E. Srinivasa Murthy</i>
317	Performance Enhancement of slanted T-gate Al_{0.23}Ga_{0.77}N/pGaN-Based High Electron Mobility Transistor for Power Electronics Applications <i>Sanyukta Gogate, R. Saravana Kumar</i>
336	Low Power Fast Radix-2 Compare-Select-Add based Adaptive Viterbi Decoder <i>Kavin Raghav S, Harshavardhan K B, Kavyadharshini S, B Yamuna, Jiya Johnson</i>
373	Finite Element Analysis of Ferroelectric FETs for Logic-in-Memory Applications <i>Harsha Ragini Aturi, Ramana Murthy G</i>
612	Comparative Study of GA-Optimized LFSR Architectures for Power-Efficient BIST <i>Jawahar Srinivas A, S. Nithesh Kumar, Thaareesh R, Priyatharishini M</i>
1048	Implementation of FPGA-Based Masked Hardware Accelerator for Convolutional Neural Networks with Fixed-Point Arithmetic <i>Yogeswar Damarla, Khaleel Ahmed Shaik, Nagur Basha Sayyad, Manoj Gopal Pandraju</i>
1335	Design and Comparative Analysis of an Enhancement-mode Operated T-Gate MIS-HEMTs with GaN and AlGaN Channels for High-Power Applications <i>K. Yogeshvaran, M. Leeban Moses, L. Lino, R. Saravana Kumar</i>

Session 5	Track 4: Antennas, RF, Microwave and VLSI Systems
Date / Time	18 March 2026 (Wednesday) / 10:45 AM – 12:15 PM
Venue	ECE Seminar Hall
Chair(s)	Dr. K.T. Selvan , <i>Professor, Department of ECE, SSN College of Engineering</i> Dr. B. Sakthi Abirami , <i>Assistant Professor, Department of ECE, SSN College of Engineering</i>
19	SRR-Based Single-Band Terahertz Resonator for High-Sensitivity Skin Cancer Detection <i>Manoj Gangadharan, Vaishale Rathinasamy, T. Rama Rao</i>
149	Design of a Rectangular Slot Antenna Based on TE Mode for 5G Wireless Mobile Communication Networks <i>S. Sasikala, D. Akash, M. Hariprasad, T. Arunkumar, M. Hariharan, S. Bhoopalan</i>
156	Radiation Efficiency Enhancements of a Circular Substrate Integrated Waveguide Patch Antenna for 5G Mobile Communications <i>A Yogeshwaran, P. Prakash, S. Saran, K. Prabhakaran, K. Shanmuganathan, S. Bhoopalan</i>
201	Dual-Port Ingestible Antenna for In-Body Wireless Communication in Biomedical Applications <i>Praveen Gawtham Y, Prakash T, Thennarasi G</i>
207	Miniaturized Antenna Design for Future Wireless Systems: ML-Based Gain Prediction and Optimization <i>Suresh D, Hemath Sakthi S S, Ajay Kumar R, Mohan C</i>
230	Metamaterial Inspired MIMO Antenna for 5G Applications <i>M. Seenivasan, M. Paranthaman</i>
291	Miniaturized Wideband 5G-MIMO Antenna for IoT Applications <i>Lakshmi Priya R, Navitha M, Kangeyan R</i>
295	Efficient Hyperspectral Imaging Compression and Reconstruction for ADAS <i>Aravinth J, Aneesh K V, Aswin Kumar N S, Aravind B, Balla Pavan Kumar</i>

Session 6	Track 7: Network Security, Privacy, and Quantum Communications Track 8: Green and Sustainable Communications
Date / Time	18 March 2026 (Wednesday) / 10:45 AM – 12:15 PM
Venue	Microwave Laboratory
Chair(s)	Dr. R. Kishore , <i>Associate Professor, Department of ECE, SSN College of Engineering</i> Dr. N. Prabagarane , <i>Associate Professor, Department of ECE, SSN College of Engineering</i>
218	Weather-Aware Autonomous Driving with Road Condition Analysis using Carla <i>M. Vijayalakshmi, M. Bharathwaj, R. Sanjay Krishnan</i>
268	NoRANet - Dual Adversarial Network with Residual Attention for Detecting Steganographic Attacks <i>Arjay J G, Sheshwat S, Brindha S</i>
315	Hardware Aware Quantum Image Processing using Fan Adaptive Algorithm for Optimized FRQI Encoding and Edge Detection <i>Sowndharya G, Umamaheswari K</i>
319	Verification of a Multi-Stage Chaotic Image Encryption Architecture Using MATLAB and VIVADO <i>Haridoss Bupaal S, Arunnithi Raja, P Maran, P Mathivanan</i>
320	Text-to-Image-Diffusion-Based Generation of Rare Road Scenarios for safer ADAS Systems <i>Hitha S, Aravinth J</i>
323	Quantum-Inspired Cheetah Optimization Algorithm for Energy-Efficient Cluster Head Selection in Wireless Sensor Networks <i>Thalaimalaichamy M, Nirmalraj T, Radhakrishnan S, Rajendran V G</i>
628	SteganoML: An Adaptive ML-Driven Audio Steganography for Robust Secure Communication <i>M Pooja Verma, Sanjay Sakamuri, Sahaya Sakila V</i>
722	Efficient Communication and Adaptive Privacy in Industrial IoT Using Hierarchical Fog and Personalized Differential Privacy <i>Harini K, Mahesh Adithya P K, Rosshun S M, Kirthiga S</i>
1148	DRL-Enabled Dynamic STAR-RIS Configuration and Joint Power Allocation for Secure and Spectrally Efficient NOMA Networks <i>Arumiga J, Hemanth C</i>

Session 7	Track 4: Antennas, RF, Microwave and VLSI Systems
Date / Time	19 March 2026 (Thursday) / 09:00 AM – 10:30 AM
Venue	Central Seminar Hall
Chair(s)	Dr. P. Vijayakumar , <i>Professor, Department of ECE, SRMIST Kattankulathur</i> Dr. B. Partibane , <i>Associate Professor, Department of ECE, SSN College of Engineering</i>
331	Comparative Analysis of Optical Fiber Types for a Short Coil Interferometric Fiber Optic Gyroscope <i>Bhuvaneswari M S, Shanthi Prince</i>
365	Multi-Domain EEG Analysis for Sleep Disorder Classification Using Attention-Based Deep Learning <i>Ajitha Durai Pandi, K Rajeswari, Hari Nainyar Pillai C</i>
739	Distributed Weak-Jamming Detection via Sparse Convex Optimization with Robust Worst-Case Guarantees <i>S. Jeyaseelan, P. G. S. Velmurugan, G. Prabhakar</i>
821	Design and Development of High-Resolution SPR based Photonic Crystal Fibre sensor for Biomedical Refractive Index Sensing <i>Kathiravan T, Parthiban M, Sapineni Harshavardhan Naidu, Balaji M, Barathwaj S, Dhanush Kumar N</i>
874	Implementation of a Polarization-Reconfigurable Metantenna for Sub-6 GHz Wireless Systems <i>N. A. Kasinath, V. Shashnak, P. Naga Sai Ram, Bikash Ranjan Behera, Mohammed H. Alsharif</i>
1039	ECM Based Bayesian Optimization of FSS Geometries for EM Shielding in Wi-Fi7 and IoT Systems <i>Harshitha J, Dhakshina S, Lingeshwaran Murugasamy</i>
1189	Phase Noise Mitigation in Bistatic Pulse-Doppler Radar via Ornstein-Uhlenbeck State-Space Modeling <i>Adarsh Venugopal, Anjana C V, Vangipurapu Kireeti Akshar Brahma, Gandhiraj R, Anandaselvakarthis T</i>
1423	Design of an Optimized Multilayer C-Sandwich Radome for X-Band Airborne Radar Applications <i>D Nitin Sai, Saketh B N, Dhruv Kumar, Santhosh A K, Sanjika Devi R V, Dhanesh G. Kurup</i>

Session 8	Track 2: Signal and Image Processing, Computer Vision
Date / Time	19 March 2026 (Thursday) / 09:00 AM – 10:30 AM
Venue	ECE Seminar Hall
Chair(s)	Dr. V. Sherlin Solomi , <i>Associate Professor, Department of Electronics & Communication Engineering, Hindustan Institute of Technology & Science.</i> Dr. S. Hanis , <i>Associate Professor, Department of ECE, SSN College of Engineering</i>
146	Performance analysis of controllers in a 3-DOF manipulator of a Robotic Arm <i>Sanjith G, Jelena Cathy J, Shree Nethe G P, Ganesan M</i>
252	Graph-based Hierarchical Multi-level Framework for Audio Caption Generation <i>Mohanachandhiran P, S. Vivek, Rhuthresh S, S. Radhika</i>
270	DeepStressNet: A Transparent Deep Learning Model for EEG-Based Stress Monitoring <i>Lingeshwaramoorthy E, K. Venkatasubramanian, Gayathri M</i>
289	Benchmarking Modern CNNs for RGB Malware Image Classification: ResNet, InceptionResNet, and EfficientNet <i>Fudhail M, Tufail M, Anjali T</i>
307	Modeling and Accurate Prediction of MOSFET Characteristics using Machine Learning Algorithms <i>Raghul S, Papanasam E</i>
1152	Noise-Aware Maritime Object Detection in UAV Imagery Using Joint Denoising–Detection Learning <i>A Kaviyarasu, V Nivashini, G Rajesh, M Rameez Akther</i>
1214	Meta-Learning for Cancer Detection: Few-Shot Adaptation for Rare Tumor Type Recognition <i>Sumathy R, S Rajarajeswari</i>
1283	Multi-Backbone Encoder Evaluation for Robust Liver Tumor Segmentation <i>Ganesh Kumar Chellamani, Aishwarya N, A S Vijay</i>
1362	Subject-Specific Dried Blood Droplet Morphology Analysis Using a Hybrid DenseNet201 and Random Forest Approach with XAI Interpretation <i>Reshma Vijayakumar, Kethan Sai Vuppalapati, Namasivaya Naveen S, Rhevathi M</i>