



Technical Program (Tentative) Wireless Communication & Radar



Day 1: August 17, 2026

13:00-Onwards	REGISTRATION	
16:00-17:00 Invited Talk # 1	IC Failure Analysis: Challenges and Diagnostics	Dr Muhammad Yasir Qadri CESAT, Islamabad, Pakistan
17:00-18:30 MMIC Design (Session-I)	WCR-257 Design of a 6-Bit Phase Shifter for X-Band Multifunction Core-chip	Zargham Haider Kazmi NUCES (FAST-NU), Islamabad
	WCR-344 Design and Development of Class-D Power Amplifier for Radio Applications	Khuzaima Ali Khan PNEC NUST
	WCR-261 Broadband Inductorless Tx/Rx SPDT Switch Using Stacked HEMT Topology	Harram Nazir SEECS, NUST, Islamabad
	WCR-440 GaN-based 2.5–6 GHz Reactively Matched Power Amplifier MMIC	Salahuddin Zafar CESAT, Islamabad, Pakistan
	WCR-555 X-Band GaN-on-SiC MMIC Driver Amplifier for Radar Systems	Rahab Azhar Department of Electrical Engineering, UET Peshawar – Bannu Campus, Pakistan
	WCR-263 Design of an X-band Low-Noise Gain Block for Multifunction Core Chip using 0.25 μm GaAs pHEMT Process	Mudassir Ali, CESAT, Islamabad, Pakistan



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Day 2: August 18, 2026

09:00-10:00 Invited Talk # 2	Millimeter-wave Frequency Device Technologies	Prof Chong Li James Watt School of Engineering, University of Glasgow Glasgow, UK
10:00-10:30 Communication Systems (Session-II)	WCR-131 Superposition-Based Waveform Design for Joint Optical Sensing and Communication Systems	Fareeha Karim Northwestern Polytechnical University, Xi'an China
	WCR-447 Energy Efficiency Management in Reconfigurable Intelligent Surface Aided 6G Networks	Umar Ghafoor National University of Sciences and Technology
10:30-10:50	TEA	
11:00-12:00 Invited Talk # 3	Empowering Next-Generation Sustainable IoT: Signal Design, Multiple Accessing and Ambient Backscatter Prototypes	Prof. Muhammad Sohaib J. Solaija Gebze Technical University Turkiye
12:30-14:00	Lunch + Prayer Break	
14:00-15:00 Invited Talk # 4 (Work Shop)	Challenges of on-wafer measurement at Millimetre-wave frequencies	Prof Chong Li James Watt School of Engineering, University of Glasgow Glasgow, UK
15:00-15:30 Signal Processing (Session-III)	WCR-569 An area optimized poly phase filter bank architecture for wide band signal processing applications	Kaniz Fatima CESAT, Islamabad, Pakistan
	WCR-304 Adaptive Interference Suppression in GNSS Using an 8-Element CRPA Antenna Array	Samaira Waqar CAE NUST, Pakistan



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Day 3: August 19, 2026

09:00-10:00 Invited Talk # 5	Toward Intelligent Multifunctional Electromagnetic Control with Reconfigurable Metasurface Antennas	Prof. Qunsheng Cao Nanjing University of Aeronautics and Astronautics, China
10:00-10:30 EM & Radar Algo (Session-IV)	WCR-590 Doppler Signal-to-Clutter Ratio Detection of Low RCS Drones in Heavy Pulse-Doppler Clutter	Zarmeen Chaudhry National University of Sciences and Technology
	WCR-498 Design and Experimental Validation of a Multiband Cross-Polarization Conversion (CPC) Metasurface for Radar Cross Section (RCS) Reduction	Sohaib Yaqoob Chaudhry National University of Sciences and Technology
10:30-10:50	TEA	
11:00-12:00 Invited Talk # 6	Technologies Enabling Future Mobile Connectivity and Sensing: V2X RF Frontend Module Assistance Circuits	Dr Ertan Zencir Tubitak Bilgem Research Center Turkiye
12:30-14:00	Lunch + Prayer Break	
14:00-15:00 Invited Talk # 7 (Plenary Talk)	Flexible and Cognitive Radio Access Technologies for 5G and Beyond	Prof. Huseyin Arslan Istanbul Medipol University Turkiye
15:00-16:00 Communication Systems (Session-V)	WCR-68 Adaptive Guard Zone for Transmission Scheduling in Clustered IoT Networks	Malik Huzaifa Arif Department of Avionics Engineering, Air University, Islamabad
	WCR-154 Adaptive Load Balancing in Two-Hop Wireless Sensor Networks via Controller-Inspired Rate Control	Irfan Jamshed Mirpur University of Science and Technology
	WCR-368 DRL-Based Semantic-Aware Resource Allocation for Hybrid Multiple Access HetNets	Sana Shakeel Military College of Signals, National University of Sciences and Technology
	WCR-171 RadComSqueeze: An Efficient Automatic Modulation Recognition for Integrated Sensing and Communication Systems in 6G	Awais Ahmed Quaid-i-Azam University Islamabad



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Day 4: August 20, 2026

09:00-10:00 EW Systems (Session-VI)	WCR-145 NavForge: Real-Time Multi-Constellation GNSS Signal Generation	Areeba Masood CESAT, Islamabad, Pakistan
	WCR-435 Resource Optimized FPGA based implementation of High Speed, Narrow band, Real-time ELINT Receiver	Salma Sakhawat CESAT, Islamabad, Pakistan
	WCR-527 Low-Complexity Monobit Digital Receiver for Instantaneous Frequency Measurement and Modulation Recognition	Yasir Iqbal CESAT, Islamabad, Pakistan
	WCR-520 An X-Band Monopulse Direction-Finding Receiver Based on a Rat-Race Comparator and a 2×2 Antipodal Vivaldi Array	Sohaib Yaqoob Chaudhry National University of Sciences and Technology

