



Technical Program (Tentative)
Wireless Communication & Radar



Day 1: August 16, 2022

09:00-12:30	DEPARTURE TO BHURBAN	
12:30-14:00	LUNCH BREAK	
14:00-15:00 Invited Talk # 1	GaN Technology Evolution, Challenges and Future Trends	Prof Ekmel Ozbay Bilkent University Turkey
15:00-15:30 EM & Antenna Session-I	WCR-1 Dual Band Metasurface-based Perfect Absorber for Ku band Applications	Syed Wahab Zarin RIMMS, NUST, Islamabad Pakistan
	WCR-268 A 2x16 Array of Antennas with Reduced Mutual Coupling Using Parasitic Element for Large MIMO Systems	Khalid Riaz IST, Islamabad, Pakistan
15:30-16:00	TEA BREAK	
16:00-17:15 EM & Antenna Session-II	WCR-173 A Compact Highly Isolated MIMO Antenna Design for WiFi-6/5G Applications	Sidra Jabeen EME, NUST, Islamabad Pakistan
	WCR-253 MIMO Dielectric Resonator Antenna Array for 5G Systems	Areeba Jadoon COMSATS, Islamabad, Pakistan
	WCR-294 Polarization transforming metasurface for millimeter-wave (mmW) applications	Ahsaan Gul Hassan RIMMS, NUST, Islamabad Pakistan
	WCR-448 A compact monopulse circularly polarized slot array antenna for airborne applications	Wasim Nawaz SUPARCO Karachi Pakistan
	WCR-632 A 4-Bit higher Order Tri-Band FSS With Multifunction Property at Two Bands	Gulab Shah CESAT, Islamabad, Pakistan



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19th International Bhurban Conference
on Applied Sciences & Technology

16-19 August, 2022



Day 2: August 17, 2022

09:00-10:00 Invited Talk # 2	Design Challenges of Drone Detection Radar	Dr. Jahangir Kayani CESAT Islamabad Pakistan
10:00-10:30 EM & Antenna Session-III	WCR-658 Self-Decoupled Dual-Band PIFA for Wi-Fi 6E Smartwatch MIMO Applications	Babar Aslam Baloch MCS, NUST, Pakistan
	WCR-823 Ridge Gap Waveguide based Slot Antenna Array for Point-to-Point Wireless Communication	Shozab Shafiq BIT Beijing China
10:30-11:00	TEA BREAK	
11:00-11:45 RF & Microwave	WCR-511 Hybrid IC based TR Module for X-band AESA Radar	Rameez Akhtar RIMMS, NUST, Islamabad Pakistan
	WCR-729 High Performance C-band Power Amplifier for CW and Pulsed Applications	Faheem Mughal CESAT, Islamabad, Pakistan
	WCR-695 Research on electrical performance enhancement technology in splice area of large assembled radome	Wang Bin NUAA, Nanjing, China
12:30-14:00	LUNCH BREAK	
14:00-15:00 Invited Talk # 3	Antenna Test Challenges and Solutions	Hawldy Zaho Ceyear Technologies CHINA
15:00-16:00 Radar & EW	WCR-204 Characterizing Beat Terrain Fluctuations in Ranging the Leaky Sensor of FMCW Transceiver	Muhammad Jawad CESAT, Islamabad, Pakistan
	WCR-224 Sidelobe level and nulls control of defected antenna array using an optimization algorithm	Hina Munsif COMSATS, Islamabad, Pakistan
	WCR-322 Radar Cross Section Based Shape Optimization of Chine Forebody	Hassan Tariq NUST, Islamabad Pakistan
	WCR-329 An Effective Jamming Suppression Method against DRFM based Complex Range False Targets	Yasir Iqbal CESAT, Islamabad, Pakistan



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Day 3: August 18, 2022		
09:00-10:00 Invited Talk # 4	HITL Modeling Problems in Development of Modern Radio Technical Systems	Dr. Vasily Kondratyونok KB Radar, Belarus
10:00-10:30 Communication System Session-I	WCR-842 Optical Chaos Based Secure Optical Body Area Network Employing Polarization Multiplexing and Free Space Optics for e-Health Applications	Benish Kanwal MUST, Mirpur, AJK, Pakistan
	WCR-674 Performance Evaluation of Xilinx Zynq UltraScale+ RFSoc Device for Low Latency Applications	Amna Javaid CESAT, Islamabad, Pakistan
10:30-11:00 TEA BREAK		
11:00-12:00 Invited Talk # 5	The State of the art Terahertz Radar	Prof Hu Weidong BIT China
12:30-14:00 LUNCH BREAK		
14:00-15:00 Invited Talk # 6	Private 5G Use Cases for Enterprises	Dr. Kashif Mahmood Telenor Research, Norway
15:00-15:45 Communication System Session-II	WCR-656 Development of a Visible Light Communication (VLC) System with Noise Suppression and Differentiation between Combined Sequences	Hasnain Ali Air University, Islamabad, Pakistan
	WCR-426 Optimized LDPC code concatenated with Trellis shaping for PAPR reduction in SISO-OFDM systems.	Amna Arif NUST, Islamabad, Pakistan
	WCR-143 A Reliable Energy-Efficient SDN based routing approach for WBAN	Shayan Amin FAST NUCES, Karachi, Pakistan