



Technical Program (Tentative)
Wireless Communication & Radar



**18th International Bhurban Conference
on Applied Sciences & Technology**

12-16 January, 2021



Day 1: January 12, 2021

09:30-09:45			OPENING MESSAGE FROM CHIEF GUEST		
10:00-11:00 Invited Talk # 1			Tensor Modeling and Decompositions for Applications in Array Signal Processing.		Dr. Tanveer Ahmed NUAA Nanjing CHINA
11:00-11:30 EM & Antenna Session-I			WCR-23 A Textile Based Wideband Wearable Antenna		Junaid Ashraf Information Technology University, Lahore, Pakistan
			WCR-47 A Low-cost Photopaper Based Wideband Wearable Antenna for WBAN Applications		Abdul Jabbar Information Technology University, Lahore, Pakistan
11:30-11:50			TEA BREAK		
12:00-12:45 EM & Antenna Session-II			WCR-148 An Efficient and Compact Metalens for Microwave Regime		Yumna Siddique Information Technology University, Lahore, Pakistan
			WCR-393 Direction of Arrival Estimation by Designing an Antenna with Unique Axial Ratio Profile		Abdul Mannan IST, Islamabad Pakistan
			WCR-501 A Novel Miniaturized Frequency Selective Surface for EMI Shielding Applications		Muhammad Idrees Harbin Institute of Technology Shenzhen, China
13:00-14:00 Invited Talk # 2			Antennas, Arrays and Antenna Calibration: Key to the Measurements		Prof. Levent Sevgi Okan University Turkey
14:00-14:30			LUNCH BREAK		
14:30-15:30 Invited Talk # 3			Dispersion-Engineered Wideband Low-Profile Metasurface Antennas		Prof. Zhi Ning Chen, Dr. Wei Liu University of Singapore



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Day 2: January 13, 2021		
10:00-11:00 Invited Talk # 4	Introduction to Micro-Doppler Signatures and Multi Antenna Radars: Research Directions, Challenges and Opportunities	Dr. Ijaz Haider Naqvi & Dr. Faran Awais Butt LUMS & UMT, Lahore Pakistan
11:00-11:30 EM & Antenna Session-III	WCR-530 A Wideband Antenna for V-Band Applications in 5G Communications	Musa Hussain Bahria University, Islamabad, Pakistan
	WCR-590 A Wideband Resonant Cavity Antenna Utilizing Single Stepped Dielectric Superstrate	Waqar Abbas CESAT, Islamabad, Pakistan
11:30-11:50	TEA BREAK	
12:00-12:45 RF & Microwave	WCR-115 Micromachined air core meander transformer for on-chip high frequency applications	Muhammad Awais Aslam Information Technology University of the Punjab (ITU), Pakistan
	WCR-251 A 5 bit Low Loss Compact Switched Delay Line Phase Shifter for Phased Array Radar Applications	Kashif Usman Malik CAE, NUST, Pakistan
	WCR-379 Internet of Trees (IoTr): A Low-Cost Single Stub Lorentz Resonator For Plant Moisture Sensing	Abdul Jabbar National University of Computer and Emerging Sciences, Islamabad, Pakistan
13:00-14:00	LUNCH BREAK	
14:00-15:00 Invited Talk # 5	The Wavefront Control with Nanostructures	Prof. Humeyra Caglayan Tampere University Finland
15:00-16:00 Radar & EW Session-I	WCR-186 Boosting SNR for Passive detection of Weak Radar Pulses under non-Cooperative Environment	Muhammad Jawad CESAT, Islamabad, Pakistan
	WCR-229 Advanced Strategies to Analyze the Effects of Platform Motion on a Moving DRFM Jammer in Different Jamming Scenarios	Hassan Javed CESAT, Islamabad, Pakistan
	WCR-404 Displaced Phase Center Antenna Processing for Airborne Phased Array Radar	Umar Anjum Air University, Kamra, Pakistan



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Day 3: January 14, 2021		
10:00-10:30 Radar & EW Session-II	WCR-514 Experimental Results for Angular Resolution Improvement in Slow-Time Phase-Coded FMCW MIMO Radars	Hamza Malik CAE, NUST, Pakistan
	WCR-542 An Overview of Radar Anti-Jamming Using Reinforcement Learning	Muhammad Majid Aziz IST, Islamabad, Pakistan
10:30-11:15 Communication System Session-I	WCR-19 Advantages of Co-Deployment of C-RAN and MEC in 5G	Sheeza Rathore University of Gujrat Sialkot sub campus, Pakistan
	WCR-269 Autonomous Modulation Classification using Single Inception Module based Convolutional Neural Network	Zeeshan Mumtaz Air University, Islamabad, Pakistan
	WCR-602 Traffic Agents-Based Analysis of Hotspot Effect in IoT-Enabled Wireless Sensor Network	Sheikh Umar COMSATS, Islamabad, Pakistan
11:30-11:50	TEA BREAK	
12:00-12:45 Communication System Session-II	WCR-364 Performance Analysis of Single-Hop Device to Device Communication	Sundus Ali NED UET, Karachi, Pakistan
	WCR-479 Power Allocation Algorithm based on N^{th} order Fibonacci Polynomial for Multi-User NOMA	Zeeshan Mumtaz Air University, Islamabad, Pakistan
	WCR-510 MIMO Enabled Multi-Band 5G NR Fiber Wireless using Sigma Delta over Fiber Technology	Usman Hadi Aalborg University Denmark
13:00-14:00	LUNCH BREAK	
14:00-15:00 Invited Talk # 6	A Brief Review of Recent GaN HEMT/MMIC Based RF Technology Activities in Turkey: From DC to Millimeter Wave Frequencies	Prof. Ekmel Özbay Bilkent University, Ankara, Turkey
15:00-16:00	BACKUP SLOT FOR ANY MISSED TALK	
16:00-17:00 Invited Talk # 7	Multifunction Phased Array Radar Design Evolution	Dr. Flipo Neri Virtualabs, Radar & EW Systems Innovation, Italy