BWAC IAB MEETING

June 24-25, 2021

Virtual Meeting Via Zoom

Online Registration: bwac.arizona.edu

(BWAC logo — Broadband Wireless Access & Applications Center)

THURSDAY, JUNE 24, 2021

<u>NOTE:</u> TIMES SHOWN BELOW ARE **EASTERN DAYLIGHT TIME (EDT)**

TIME		TITLE	PRESENTER
11:00 AM	11:15 AM	Opening Remarks, Meeting Logistics, and Center Status Update	Marwan Krunz, Center Director, UA
11:15 AM	11:20 AM	Explanation of LIFE Forms	Hang Liu, Site Director, CUA
11:20 AM	**12:20 PM**	**Keynote 1: The Long & Winding Road to Next G**	Ali Khayrallah, Engineering Director, Ericsson Research
12:20 PM	12:25 PM	**Short Break**	

Proposed Projects– Session I, Chair: Tamal Bose **(presenters' names indicated with '*')**			
TIME		TITLE	INVESTIGATORS
12:25 PM	12:40 PM	Coverage and Rate Improvements with Intelligent Reflecting Surfaces in Urban/Sub-Urban Environments	Ender Ozturk*, Chethan Kumar Anjinappa*, Moin Chowdhury, and Ismail Guvenc (NCSU)
12:40 PM	12:55 PM	Edge-Assisted Cooperative Perception and Augmented Reality	Li-Tse Hsieh*, Cheng-Yu Cheng, Hang Liu*, and Marwan Krunz (CUA and UA)
12:55 PM	1:10 PM	Adaptive 3D Point Cloud Compression and Transmission	Mai Bui*, Lin-Ching Chang*, and Hang Liu (CUA)
1:10 PM	1:25 PM	Machine Learning Based Localization and Beamwidth Adaptation in Multi-BS Scenarios	Sopan Sarkar* and Marwan Krunz* (UA)
1:25 PM	**2:15 PM**	**Lunch Break** (for attendees on MT, CT, and ET)	
2:15 PM	**2:45 PM**	**Keynote 2: Accelerating 6G Innovation**	Mark Pierpoint Senior VP, and President of Network Applications and Security, Keysight Technologies

Proposed Projects – Session II, Chair: John Daigle (presenter's name indicated with '*')			
TIME		**TITLE**	**INVESTIGATORS**
2:45 PM	3:00 PM	Ongoing Investigation of 3D-Printing RF Devices	Bibek Kattel*, W. Elliott Hutchcraft, and Richard K. Gordon (UMiss)
3:00 PM	3:15 PM	Miniaturized GRIN Lenses Using 3D Printed Ceramics	Yongduk Oh* and Jacob Adams (NCSU)
3:15 PM	3:30 PM	Machine-Learning Based Waveform Classification in Shared Spectrum	Wenhan Zhang* and Marwan Krunz* (UA)
3:30 PM	3:45 M	Propagation Measurements and Modeling with Transparent Reflectors at Sub-6 (3.6-6 GHz) and mmWave (28 GHz) in Indoor Environments	Ender Ozturk*, Kairui Du*, and Ismail Guvenc (NCSU)
3:45 PM	**3:55 PM**	**Short Break**	

Proposed Projects – Session III, Chair: Lin-Ching Chang (presenter's name indicated with '*')			
TIME		**TITLE**	**INVESTIGATORS**
3:55 PM	4:10 PM	Distributed Massive MIMO for 6G Applications	Noel Teku*, Tamal Bose*, and Ravi Tandon (UA)
4:10 PM	4:25 PM	Machine Learning-based Fast and Reliable Decoders for URLLC	Sudarshan Adiga*, Ravi Tandon*, and Tamal Bose (UA)
4:25 PM	4:40 PM	Metasurface Cloaks for Reduction of Mutual Coupling in Printed and Slotted Antennas and Antenna Arrays	Shefali Pawar* and Alexander Yakovlev (UMiss)
4:40 PM	4:55 PM	Invited Talk:Transitioning from PhD Research to Industry	Ture Peken, Keysight
4:55 PM	**6:05 PM**	**Poster Session- Breakout Rooms**	
6:05 PM	**6:30 PM**	**Announcement- Poster Session Awards**	

FRIDAY, JUNE 25, 2021

11:00 AM	12:00 PM	**IAB Project Voting & Business Meeting (*only IAB members*)**
12:00 PM	1:00 PM	**IAB Technical Feedback on Proposed Projects (*only IAB members, site directors, and BWAC faculty*)**