

²⁰²² Special Session on Emerging Topics in 6G Communications

Dr Khaled Rabie Manchester Met University, UK <u>k.rabie@mmu.ac.uk</u>



Dr Rabie received the Ph.D. and MSc degrees in Communication Engineering from

the University of Manchester, U.K., in 2010 and 2015, respectively. He is currently an associate professor at the Manchester Met University (MMU), Manchester, UK. His research interests include signal processing and analysis of the next generation wireless communication networks. He received several awards, nationally and internationally, including the Best Student Paper Award at the IEEE ISPLC in 2015, TX, USA. He is an Area Editor of IEEE Wireless Communications Letters. an Associate Editor of IEEE Access, and Editor of IEEE Internet of Things Magazine, an Area Editor of Physical Comm and an Executive Editor of the Emerging **Telecommunications Technologies** Journal. Khaled is also a Fellow of the UK Higher Education Academy.

Dr Galymzhan Nauryzbayev Nazarbayev University galymzhan.nauryzbayev@nu.edu.kz



Dr Nauryzbayev (M'16) received the B.Sc. (Hons.) degree and M.Sc. (Hons.) degree in Radio Engineering,

Electronics and Telecommunications from Almaty University of Power Engineering and Telecommunication, Almaty, Kazakhstan, in June 2009 and June 2011, respectively. In 2016, he obtained a Ph.D. degree in Wireless Communications from the University of Manchester, UK. He is currently an Assistant Professor at Nazarbayev University (Nur-Sultan, Kazakhstan). His research interest is in the area of wireless communication systems, with particular focus on RIS-enabled wireless comms, cognitive radio, signal processing, energy harvesting, visible light comms, NOMA, interference mitigation, etc. Dr Nauryzbayev served as a Technical Program Committee member on numerous IEEE flagship conferences. Dr. Nauryzbayev is a member of the National Research Council of the Republic of Kazakhstan.

Dr Xingwang Li Henan Polytechnic University lixingwang@hpu.edu.cn



Dr Xingwang Li (M'15) received Ph. D and MSc degrees from University of

Electronic Science and Technology of China, Chengdu, China in 2010 and from University of Posts and Telecommunications, Beijing China in 2015, respectively. Before this, he worked at Comba Telecom. Ltd (2010-2012). He is currently an Assistant Professor at Henan Polytechnic University, Jiaozuo, China. His research interest includes ambient backscatter communication. NOMA. hardware-constrained communication, physical layer security, MIMO comm, cooperative comm, EH, UAV, etc. He is an Editor of KSII Transactions on Internet and Information Systems. He also has served a TPC member of IEEE Globecom.

Dr Basem ElHalawany Benha University, Egypt basem.mamdoh@feng.bu.edu.eg



Dr ElHalawany received the master's degree from Benha University, Egypt and the

Ph.D. degree from Egypt-Japan University of Science and Technology, Egypt, in 2011 and 2014, respectively, both in electronic and communication engineering. He was a Research Fellow at Shenzhen University, Shenzhen, China, and Kyushu University, Fukuoka, Japan. He also holds the position of an Associate Professor with Benha University. He has authored or coauthored 40+ high-quality research papers in international leading journals and primer conferences. His research interests include performance analysis, resource management, and optimization in wireless networks, NOMA, and machine learning applications in communication.

Scope of the session

The aim of the Emerging Topics in 6G Communications Track in CSNDSP 2022 is to serve as a platform to present state-of-the-art research work on the challenges and developments related to 6G communication systems. We therefore invite authors from both industry and academia to submit papers and share their recent results on this platform.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

Al applications for 6G	UAV-aided communication networks
 mmWave/Terahertz communications 	• Multiple access schemes for 6G systems.
• Security and energy efficiency in 6G systems	Green industrial processes
Cross-layer optimization for green networks	Green wireless networks
Reflective Intelligent Surfaces	Interference management
Ambient backscatter communications	• Hardware architectures and designs for 6G