

7th International Workshop on Emerging Technologies for 5G and Beyond Wireless and Mobile Networks (ET5GB)

In conjunction with IEEE GLOBECOM 2018, Sunday December 9, 2018 Abu Dhabi, UAE, <http://www.et5gb.com/>
<http://globecom2018.ieee-globecom.org/workshop/ws-02-et5gb-emerging-technologies-5g-and-beyond-wireless-and-mobile-networks>

Workshop Chairs	Call for papers		
<p>Tommy Svensson, Chalmers U. of Technology, Sweden Halim Yanikomeroglu, Carleton University, Canada Peiyong Zhu, Huawei Technologies, Canada</p>	<p>The 5G standards are expected to be approved by ITU around 2020 timeframe followed by the initial commercial deployments in the early 2020s. As such, it is time to initiate a brainstorming endeavour towards the beyond-5G wireless networks; we refer to such networks as 5G+ in order to include the evolution of the 5G standards in 2020s and to perform the groundwork for those to be developed towards 2030. This workshop will be a venue to brainstorm on and to identify the emerging concepts, technologies, and analytical tools for 5G+ networks.</p> <p>We aim to bring together leading researchers in both academia and industry, and to provide a forum for researchers from diverse backgrounds to share their views on 5G+ and to have an open dialogue on the future of wireless research. The goal is to identify the key 5G+ technologies that can deliver significant capacity, coverage, user-experience benefits, and can integrate well with the vertical industries. Topics of interest include, but are not limited to the following.</p>		
Technical Program Chairs			
<p>Huseyin Arslan, University of South Florida, Tampa, USA Lingjia Liu, Virginia Tech, USA Charlie (Jianzhong) Zhang, Samsung Electronics, USA</p>			
Keynote Speakers			
<p>To be confirmed</p>			
Panel Program			
<p>To be confirmed</p>			
Technical Program Committee (confirmed sofar)			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>Abdulkareem Adinoyi, Saudi Telecommunications Company (STC) Raviraj Adve, University of Toronto Ibrahim Altunbas, Istanbul Technical University Sergey Andreev, Tampere University of Technology Imran Ansari, Texas A&M University at Qatar (TAMUQ) Hadi Baligh, Huawei Technologies Canada co. Ltd. Paolo Baracca, Nokia Bell Labs Ebrahim Bedeer, Ulster University Mats Bengtsson, KTH Royal Institute of Technology Haotong Cao, Nanjing University of Posts and Telecommunications Houda Chafnaji, INPT Rabat Rong-Rong Chen, University of Utah Oussama Damen, University of Waterloo Qinghe Du, Xi'an Jiaotong University Lutfiye Durak-Ata, Istanbul Technical University Ozgur Ertug, Gazi University Carlo Fischione, KTH David Gonzalez G., Continental Automotive Ekram Hossain, University of Manitoba Hazer Inaltekin, Princeton University Toufiquel Islam, Huawei Canada Research Center Omneya Issa, Communications Research Centre Canada Aman Jassal, Huawei Gunes Karabulut Kurt, Istanbul Technical University</p> </td> <td style="width: 50%; border: none;"> <p>Michel Kulhandjian, University of Ottawa Yicheng Lin, Huawei Technologies Liang Liu, University of Toronto Liangping Ma, Interdigital Behrooz Makki, Chalmers University of Technology Nicholas Mastronarde, University at Buffalo Masoumeh Nasiri-Kenari, Sharif University of Technology Keivan Navaie, Lancaster University Apostolos Papanthassiou, Intel Corporation Nikolaos Pappas, Linköping Univ. S. Mohammad Razavizadeh, IUST Frank Schaich, Nokia Bell Labs Karim Seddik, American University in Cairo Cong Shen, University of Science and Technology of China Gokul Sridharan, Qualcomm In Mehrdad Taki, University of Qom Miurel Tercero, Ericsson AB Olav Tirkkonen, Aalto University Cenk Toker Hacettepe, University Hugo Tullberg, Ericsson Research Joerg Widmer, IMDEA Networks Institute Xiaodong Xu, Beijing University of Posts and Telecommunications Rui Yang, Interdigital Yang Yi, Virginia Tech Di Yuan, Linköping University Wolfgang Zirwas, Nokia Siemens Networks GmbH&CoKG</p> </td> </tr> </table>	<p>Abdulkareem Adinoyi, Saudi Telecommunications Company (STC) Raviraj Adve, University of Toronto Ibrahim Altunbas, Istanbul Technical University Sergey Andreev, Tampere University of Technology Imran Ansari, Texas A&M University at Qatar (TAMUQ) Hadi Baligh, Huawei Technologies Canada co. Ltd. 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Mohammad Razavizadeh, IUST Frank Schaich, Nokia Bell Labs Karim Seddik, American University in Cairo Cong Shen, University of Science and Technology of China Gokul Sridharan, Qualcomm In Mehrdad Taki, University of Qom Miurel Tercero, Ericsson AB Olav Tirkkonen, Aalto University Cenk Toker Hacettepe, University Hugo Tullberg, Ericsson Research Joerg Widmer, IMDEA Networks Institute Xiaodong Xu, Beijing University of Posts and Telecommunications Rui Yang, Interdigital Yang Yi, Virginia Tech Di Yuan, Linköping University Wolfgang Zirwas, Nokia Siemens Networks GmbH&CoKG</p>	<p>Novel radio access network (RAN) architectures</p> <ul style="list-style-type: none"> ○ Non-terrestrial networks, very low-earth orbit (VLEO) satellites, aerial/drone/UAV-BSs, high altitude platforms (HAPs) ○ Multi-tier HetNets, small cells, moving cells ○ Advanced relaying, user terminal relaying, mesh relaying, COMP ○ Network slicing enablers, NFV <p>Novel enablers for wireless networks</p> <ul style="list-style-type: none"> ○ Machine learning, deep learning, artificial intelligence ○ Data analytics, context awareness ○ Edge computing, coded caching <p>Advanced radio resource management (RRM) techniques</p> <ul style="list-style-type: none"> ○ Interference management, interference awareness ○ Inter-cell/node/beam-space interference coordination <p>Emerging technologies in physical layer</p> <ul style="list-style-type: none"> ○ ULLRC (ultra-low latency and reliable communications) ○ Efficient application of multi-numerology concept ○ Grant-free random access ○ FSO (free-space optical) communications ○ Massive MIMO, hybrid/low-resolution transceivers, AAS ○ Multiuser communications, network information theory ○ Novel modulation and coding schemes, waveforms ○ Faster-than-Nyquits (FTN) signaling; full-duplex ○ Code-domain NOMA, power-domain NOMA, overloaded CDMA <p>Verticals and novel services</p> <ul style="list-style-type: none"> ○ C-V2X; drone-UEs ○ Enhanced voice and video, telepresence, AR/VR ○ Machine-to-machine (M2M), MTC, P2P, D2D communications <p>mm-wave and THz communications</p> <ul style="list-style-type: none"> ○ Channel characteristics and modeling, feasibility studies ○ Initial access, beamforming, beam tracking, mobility solutions <p>Energy efficiency</p> <ul style="list-style-type: none"> ○ Energy consumption models ○ Joint RF-baseband optimization, end-to-end energy optimization <p>Spectrum</p> <ul style="list-style-type: none"> ○ Aggregation of intra & inter-band carriers for both FDD and TDD ○ Cognitive radio and dynamic spectrum access <p>Prototype and test-bed for 5G+ technologies</p>
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Important Dates			
<p>Full Paper Submission: 01 July 2018 14 July 2018 Acceptance Notification: 15 August 2018 Camera-Ready Submission: 15 September 2018 Workshop: 09 December 2018 EDAS link for paper submission: https://edas.info/newPaper.php?c=25048&track=91829 Authors should follow the Globecom submission guidelines (max 6 pages + 1 with overlength charge).</p>			