

IEEE International Workshop on Emerging Topics in 6G Communications

June 14–18, 2021
Montreal, Canada



General Co-chairs

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Important Dates

- ❖ Paper submission deadline:
January 20, 2021
- ❖ Notification of acceptance:
February 20, 2021
- ❖ Camera-ready papers:
March 1, 2021

Submission link

<https://edas.info/newPaper.php?c=27569&track=102886>

Webpage link

<https://sites.google.com/view/ieeeiccworkshop/home>

Scope

5G networks and devices are now a reality with wide deployment and spread among population, but the demand for more data rate is still booming, and will soon need for a newer generation for wireless/cellular communication, the 6G. It will be a new standard that not only provides huge data rate (+1Tbps) and extremely low delay (0.1ms), but also will enable the “hyper-connected” paradigm that will connect users and things. Artificial Intelligence (AI) will play a major role within 6G, and thus more computation and communication resources will be consumed, where their optimization is a must.

6G communications will bring new challenges due to their sensitivity to scenario conditions, thereby requiring highly adaptive techniques that will adapt extremely fast, in order to guarantee a delay less than 100 microseconds. Spectrum and resources management will be crucial within 6G in order to account for the extremely heterogeneous scenario. The networks complexity will also be unprecedented, due to the very diverse applications such as ultra - low latency requirements for critical vehicle communication, the growing demand of high positioning accuracy for location - based services, and dense heterogeneous architectures.

Topics

We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- Artificial Intelligence (AI) application for 6G communications.
- Novel signal processing techniques for 6G communications.
- Smart Antenna schemes for 6G communications.
- 6G communications at the Terahertz band.
- Advanced Full Duplex strategies for 6G.
- Meta-surfaces implementation at 6G communication.
- New Quality of Service (QoS) metrics for 6G communications.
- Multiple Access schemes suitable to 6G.
- Dynamic spectrum access/sharing at 6G band.
- New network architectures in 6G.
- Self-organizing 6G-enabled IoT.
- Interference management at 6G.
- New security concepts within 6G.
- Spectrum regulatory for 6G bands.
- 6G Testbeds and Applications.

Paper Submission

The workshop accepts only novel, previously unpublished papers. The page length limit for all initial submissions for review is SIX (6) printed pages (10-point font) and must be written in English. All final submissions of accepted papers must be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures. No more than one (1) additional printed page (10-point font) may be included in final submissions and the extra page (the 7th page) will incur an over length page charge of USD100. For more information, please see IEEE ICC 2021 official website: <https://icc2021.ieee-icc.org/authors>