

Fourth IEEE International Workshop on Terahertz Communications

June 14–18, 2021
Montreal, Canada



General Co-chairs

Ian F. Akyildiz, Russian Academy of Sciences, Russia
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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/N27513>

Webpage link

<https://sites.google.com/view/thz-comm>

Scope

Terahertz (THz)-band (0.1-10 THz) communication is envisioned as a key wireless technology of the next decade. The THz band will help overcome the spectrum scarcity problems and capacity limitations of current wireless networks, by providing an unprecedentedly large bandwidth. In addition, THz-band communication will enable a plethora of long-awaited applications, both at the nano-scale and at the macro-scale, ranging from wireless massive-core computing architectures and instantaneous data transfer among non-invasive nano-devices, to ultra-high-definition content streaming among mobile devices and wireless high-bandwidth secure communications.

This Fourth International Workshop on Terahertz Communications will be held in conjunction with the IEEE International Conference on Communications (ICC) 2021 in Montreal, Canada. The twofold mission of this workshop is to increase the visibility of THz communications and to bring together researchers from diverse disciplines that can foster and develop this very fast developing field. The workshop aims to attract researchers and academics from various fields of study, ranging from THz materials, devices and packaging, to THz communication and networking researchers.

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We seek original completed and unpublished work not currently under review by any other journal/magazine/conference.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:

- Transceivers for Terahertz communications
- Antenna and massive antenna arrays for Terahertz communications
- Information theoretic analysis of Terahertz communications
- Channel models for Terahertz communications
- Channel estimation techniques for Terahertz communications
- Energy-efficient modulation and waveform design for Terahertz communications
- Beamforming, precoding and space-time coding schemes for Terahertz communications
- MAC layer design for Terahertz communications
- Interference management for Terahertz communications
- Relaying and routing in Terahertz communications
- System performance analysis of Terahertz networks
- System-level modeling and experimental demonstrations for Terahertz communications

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>.