



2022 Fifth International Workshop on Mobile Terahertz Systems (IWMTS), 4-6 July 2022

*****Paper submission deadline extended until March 21!*****

The 2022 Fifth International Workshop on Mobile Terahertz Systems (IWMTS) will be held in Duisburg, Germany, and online as hybrid workshop on 4-6 July 2022. The exact workshop venue will be announced in due time.

IWMTS sets itself apart from well-known THz conferences by focusing on "Mobile THz Technology and corresponding THz Systems" since the organizing committee believes that "Mobility" will ultimately push THz solutions to mass markets. Of course, progress reports on traditional technological advances for THz components and theoretical studies on THz wave propagation as well as related topics are also highly welcome.

Topics of the workshop include (though are not limited to) the following areas focusing on THz frequencies and mobility:

- Devices and systems
- Antennas and propagation
- Measurements, simulations and modeling
- Electronic and photonic transceivers
- Prototypes and testbeds
- Material characterization
- Spectroscopy
- Signal processing
- Communications (in particular 6G)
- Localization
- Identification
- Imaging and remote sensing
- Beamforming and -management
- Data and sensor fusion
- Applications

Confirmed Keynote Speakers

- Andrea Markelz, Title: "Using Terahertz Microspectroscopy to Measure Biomolecular Dynamics"
- Ho-Jin Song, Title: "What do future THz Communications Systems perform: In Perspective of Implementation and Energy Efficiency"
- Chi-Hou Chan, Title: "Terahertz Antennas for 6G and Beyond - Design, Prototyping, and Characterization"
- Nikhil Ponon, Title: "Terahertz express analyser for rapid detection of SARS-CoV-2"

Special Sessions:

- Wireless Glucose Sensing (organized by Victor Pikov)
- THz Identification (organized by Frédéric Garet)

Tutorial:

- On-Chip Antennas (organized by Daniel Erni)

Apply for the IWMTS "TalentTravel" Program

Travel grants are available in the new "TalentTravel" Program. For more information please visit www.iwmts.org. Application deadline: February 28, 2022

Join the panel session:

"Will Mobile THz Systems revolutionize Mobile Medical Diagnosis?"

Special Issue in IEEE Transactions on Microwave Theory and Techniques

Authors of all papers presented at IWMTS 2022 are invited to submit an extended version of their papers to a Mini-Special Issue of IEEE Transactions on Microwave Theory and Techniques. Every paper will be reviewed in the same manner as all other regular submissions. Further information can be found on www.iwmts.org.

Important Dates

Full Paper Submission Deadline:

March 21, 2022

Proposal for Special Sessions:

February 28, 2022

Acceptance Notification:

April 18, 2022

Camera-ready Submission:

May 16, 2022

IWMTS Organizing Committee

- General Chair
- General Co-Chair
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- Tutorial Chair
- Publication Chair
- Finance Chair
- Publicity Chairs
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Papers are invited to be uploaded on the EDAS system: <https://edas.info/newPaper.php?c=28804>. The manuscript should follow IEEE two column format with single spaced, 10 pt font in the text. MS or LaTeX templates can be downloaded from <https://www.ieee.org/conferences/publishing/templates.html>. The manuscript length should be three to five pages, including all figures, tables, references, and so on. All papers which meet IEEE quality standards and presented by one of the authors will be submitted to IEEE Xplore for indexing. More details about the workshop can be found on www.iwmts.org.