

Call for Papers

Workshop on Integrating UAVs into 5G and Beyond (6th Edition)

SCOPE

Unmanned aerial vehicle (UAV) communications are significantly different from conventional communication systems, due to the high altitude and high mobility of UAVs, the unique channel of UAV-ground links, the asymmetric quality of service (QoS) requirements for downlink command and control (C&C) and uplink mission-related data transmission, the stringent constraints imposed by the size, weight, and power limitations of UAVs, as well as the additional design degrees of freedom enabled by joint UAV mobility control and communication resource allocation. This workshop aims at bringing together engineers and researchers working on solutions to this and related research challenges to share their new ideas, latest findings, and state-of-the-art results.

TOPICS OF INTEREST

We seek original completed and unpublished work not currently under review by any other journal/ magazine/conference.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

- Channel measurement and modelling for UAV-BS/UAV-terminal/UAV-UAV communication links
- Energy consumption measurement and modelling for UAVs and UAV communications
- Heterogeneous network architectures and communication protocols for UAV communications
- Optimized network deployments for UAV communications
- Spectrum management and multiple access schemes for UAV communications
- Advanced antenna design for UAV communications
- Massive MIMO, millimetre wave and terahertz features for UAV communications
- Radio resource management and interference mitigation for UAV communications
- 3D UAV placement/trajectory/highway design and proactive radio resource allocation
- Optimized coexistence between UAV and terrestrial communications
- Energy-efficient UAV communications
- IRS/RIS aided UAV communications and aerial-IRS/RIS aided terrestrial communications
- Integrated sensing and communications (ISAC) for UAVs
- Integrated localization and communications for UAVs
- Machine learning for UAV communications
- Cyber security and physical-layer security of UAV communications
- Experimental performance demonstrations, prototyping, and field-tests of UAV communications
- UAV communications with other advanced technologies

PAPER SUBMISSION

All papers for Workshops should be submitted via EDAS.

Full instructions on how to submit papers are provided on the IEEE ICC 2023 website:
<https://icc2023.ieee-icc.org/>

WORKSHOP CO-CHAIRS

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IMPORTANT DATES

Paper Submission Deadline:

20 January 2023

Paper Acceptance Notification:

6 March 2023

**Camera Ready and Registration for
accepted papers:**

15 March 2023

WEBPAGE LINK

icc2023.ieee-icc.org