Call for Tutorials/Short Courses/Half-Day Workshops

Submission Deadline: 01. October 2024

Please submit your tutorial proposals by sending an email to jcns@5glab.de

Website: https://jcns-symposium.org/

SUBMISSION GUIDELINES

IEEE JC&S invites proposals for tutorials, short courses, and half-day workshops on new and emerging topics within the scope of Joint Communications and Sensing, including but not limited to the following topics:

- Fundamental information theoretical limits for JC&S
- Network architecture/transmission protocols/frame designs for JC&S
- Innovative hardware designs addressing power consumption, size, and cost benefits for JC&S
- RF system aspects and antenna design for JC&S (full duplex/interference management)
- Spectrum analysis and management of JC&S
- Precoding/waveform/modulation/receiver design for JC&S
- Security and privacy issues for JC&S
- Machine learning/Network Intelligence/AI for JC&S
- MIMO (classical, massive, cell-free, distributed) and intelligent reflecting surfaces (IRS) for JC&S
- Fine range, Doppler, and angle estimation, SLAM in wireless networks
- Millimeter-wave/THz technologies for JC&S
- JC&S for highly mobile networks
- Chirp-based communication and sensing
- Hardware/network/resource reuse and sharing for JC&S
- Standardization of JC&S
- Wi-Fi/UWB sensing/positioning/detection for JC&S
- Experiments, demonstrations and prototypes
- JC&S for non-terrestrial networks (NTN)
- JC&S for remote sensing, data fusion, synthetic aperture radar (SAR)

Tutorials, short courses, and half-day workshops are an integral part of the program and can be attended by all registered participants. However, they should provide participants with broad and comprehensive overviews of emerging fields in JC&S.

Maintaining a balanced approach and appreciating a variety of insights, rather than concentrating solely on the technical details and the work of the tutorial presenters, would be highly valued.

FORMAT GUIDELINES

All submissions should be written in English with a paper length of 2 pages. The time limit for all three formats is as follows: tutorials should not take longer than 90 minutes, short courses no longer than 120 minutes, and half-day workshops no longer than 4 hours.

The proposal should concisely describe the content and objectives of the talk, including:

- Title
- Abstract
- Objectives and motivation
- Outline, schedule, and intended audience
- Prior history of the talks' presentation, number of past attendees, and how the proposed talk differs (if applicable)
- Links to recordings of public lectures or presentations by the instructor(s) (if available)
- Short biography of the instructor(s)

Please submit your tutorial proposals as a single PDF file.