ICL-GNSS
INTERNATIONAL CONFERENCE ON LOCALIZATION AND GNSS

Conference scope: Reliable navigation and positioning are becoming essential in applications for IoT in industry and logistic applications, in smart city environments, for safety-critical purposes, in public services and consumer products to guarantee transparent, efficient and reliable workflows. A robust localization solution, which will be available continuously is needed regardless outdoor or indoor, and on different platforms. ICL-GNSS addresses the latest research on wireless and satellite-based positioning techniques to provide reliable and accurate position information with low latency. The emphasis is on the design of mass-market navigation receivers and related tools and methodologies, but also many kinds of sensing devices, wireless systems with localization capabilities, and location-aware applications are within the scope of ICL-GNSS.

Topics of interest include but are not limited to:

- Antennas and RF front-end for GNSS receivers
- Design, prototyping and testing of positioning devices
- Acquisition, tracking and navigation algorithms
- Detection and mitigation techniques for adverse propagation conditions
- Wireless and sensor-based localization
- GNSS applications for remote sensing, ionospheric sounding and space weather
- Precise timing for GNSS and terrestrial systems
- Authentication, security and/or privacy in navigation systems and location-aware communication
- Radar and radio-based sensing
- Spoofing and jamming countermeasures
- Cooperative and peer-to-peer positioning
- Positioning based on signals-of-opportunity
- Multi-GNSS receivers and emerging navigation satellite systems
- Indoor positioning and localization in densely populated urban areas
- Hybrid NAV/COM positioning
- Cognitive positioning architectures
- Positioning for autonomous systems
- Device-free localization
- 5G Positioning
- Context awareness

Paper submission: Submitted papers must represent original material that is not currently under review in any other conference or journal and has not been previously published. Papers should be four to six pages long in the specified format (references on page 7 allowed). Papers should be submitted as pdf files prepared according to IEEE two-column A4 format guidelines. We invite you to submit your original full papers on the most recent results and technology trends in the fields of positioning. Accepted and presented papers will be published in electronic conference proceedings.

Traditionally, ICL-GNSS papers will be submitted to IEEE Xplore for inclusion in the database and indexing. ***A special issue in the IEEE Journal on Indoor and Seamless Positioning and Navigation*** open-access journal will be edited after the conference based on extended top-tier papers from the conference.

Since 2020 we also have another track for industry/work-in-progress papers. It runs as a co-located workshop ***WIPHAL: Work-in-Progress in Hardware and Software for Location Computation***. The papers accepted to the workshop will be submitted to the CEUR-WS.org, an open-access repository indexed by Scopus, Ei Compendex and DBLP. For those proceedings, minimum 5-page single-column format will be used. All papers submitted to ICL-GNSS and WIPHAL will undergo a similar peer review based on the full-length paper.

Contacts and Information https://events.tuni.fi/icl-gnss2024 and iclgnss@tuni.fi

Dates and Deadlines

Special session proposals: January 31, 2024
Full paper submission: ~~February 22, 2024~~ **March 7, 2024 (extended)**
WIPHAL papers: Abstract April 5, 2024, full paper upload by April 12
Notification of acceptance: April 12, 2024 (WIPHAL May 13)
Camera-ready papers: May 13, 2024 (WIPHAL May 31)

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