



CALL FOR PAPERS

WORKSHOP FOR COMPUTING & ADVANCED LOCALIZATION (WCAL) WILL BE CO-LOCATED WITH IPIN2025

The Workshop for Computing & Advanced Localization (WCAL) will be colocated with the 2025 IPIN conference. WCAL solicits submission of high-quality technical papers reporting original work not previously published, nor currently submitted for consideration elsewhere. Papers are submitted as Workshop paper: limited to 5-9 single-column CEUR-WS format pages (including references), for poster presentation. Please note submit papers outside of the page range. Manuscripts are submitted according to the instructions for authors. Papers undergo a single-blind review process by at least two reviewers. Accepted WCAL papers will be submitted to CEUR-WS.org, which is currently indexed by Scopus, Ei Compendex and DBLP. Note that proceedings will be submitted for publication in CEUR-WS.org, but the IPIN Conference cannot guarantee inclusion in their library or indexing. The conference emphasizes open science practices, which will be positively received during the review process.

TOPICS OF INTEREST INCLUDE, BUT ARE NOT LIMITED TO

- AI-assisted localization (snapshot vs. recurrent) and sensor fusion (deep Kalman filter)
- Location awareness & context detection
- Augmented Reality & Virtual Reality applied to localization
- Benchmarking, assessment, evaluation, standards
- Data simulation & augmentation for AI-based systems
- Health & wellness applications
- Indoor maps, indoor geospatial data model, indoor mobile mapping & 3D building models
- Location-based services & applications
- Monitoring & modeling of human motion
- Indoor positioning, navigation & tracking methods
 - AI-based systems
 - Wireless sensor or cellular networks-based positioning
 - AoA-, TOA-, TOF-, TDOA-based localization
 - Channel Impulse Responses
 - Cooperative systems applied to localization
 - Fingerprinting
 - Hybrid IMU pedestrian navigation & foot mounted navigation
 - (Visual) Inertial Odometry
 - Magnetic field-based methods
- Multipath Component Analysis & Tracking
- Optical systems
- Inertial & hybrid systems
- Passive & active RFID, radar, device-free systems
- Routing in indoor environments
- RSSI (BLE & Wi-Fi) fingerprinting
- (Visual) Simultaneous Localization & Mapping (SLAM)
- Sound and Ultrasound systems
- 5G, 6G & UWB
- Privacy & security for ILS
- Satellite-based navigation
 - High Sensitivity GNSS, Indoor GNSS, Pseudolites
 - RTK GNSS with handheld devices
 - Mitigation of GNSS errors when switching indoors
 - Industrial metrology & geodetic systems, iGPS
- Smartphone-based positioning
- User requirements for location-based systems
- Wearable-based systems

The conference includes keynotes, tutorials & industry exhibitions.

Workshop Program Committee Chairs: *Lucie Klus*, Tampere University, Finland; *Guohao Zhang*, The Hong Kong Polytechnic University, Hong Kong

IMPORTANT DATES

Paper Submission: 13 July 2025 [Hard Deadline] Conference webpage: ipin-conference.org/2025/
Notification of Papers Acceptance: 4 August 2025 Submission page: softconf.com/p/ipin2025/
Camera-ready submission: 15 August 2025
Please note that there will be no deadline extensions for WCAL.

**WE ARE LOOKING FORWARD TO WELCOME
YOU AT IPIN 2025!**

