CALL FOR PAPERS

IPIN 2023 IS COMING SOON AND WE ARE REALLY HAPPY TO WELCOME YOU AT THIS FACE-TO-FACE EDITION!

IPIN solicits submission of high quality technical papers reporting original work not previously published, nor currently submitted for consideration elsewhere. Papers are submitted as regular paper: limited to 6 IEEE format pages (including references), for oral presentation. Note that authors are encouraged to submit 6-page, original and unpublished full articles (IEEE format). After acceptance and successful revision, a final paper may be up to 8 pages long. However, please note that for papers longer than 6 pages, additional page fees (per page) will apply at the time of registration and final submission of the paper. Please do not submit any paper with more than 6 pages for initial review.

Manuscripts are submitted according to the instructions for authors. Papers undergo a single-blind review process by at least two reviewers. Accepted regular papers will be submitted to IEEE Xplore® Digital Library. Note that proceedings will be submitted for publication in IEEE Xplore® and indexing. Note that the IPIN Conference cannot guarantee inclusion in the IEEE Xplore® Digital Library or indexing. Note that IEEE cannot guarantee that entries will be included in any particular database. Best papers are awarded during the conference.

TOPICS OF INTEREST INCLUDE

- 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, e.g., fingerprinting
- 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.

Program Committee: Joaquín Torres Sospedra, University of Minho, Portugal; Tobias Feigl, Fraunhofer Institute for Integrated Circuits (GER); Stefan Knauth, Hochschule für Technik Stuttgart (GER); Christopher Mutschler, Fraunhofer Institute for Integrated Circuits (GER)

IMPORTANT DATES

Paper Submission: 04 June 2023
Notification of Papers Acceptance: 21 June 2023
Camera-ready submission: 31 July 2023

WE ARE LOOKING FORWARD TO WELCOME YOU AT IPIN 2023!