

# CALL FOR PAPERS

IEEE  
INSTRUMENTATION  
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SOCIETY



The advent of terrestrial positioning systems, the internet of things and human sensor networks providing new navigation functionalities sets a novel paradigm for indoor positioning and navigation solutions. The environment, where navigation technology is expected to work, has extended to challenging indoor spaces and to the context of goods and personal mobility. Globally there is no overall and easy solution. Every year, IPIN gathers over 400 industrial and academic experts in informatics, electronics and surveying to address this challenge. In the footsteps of our Japanese colleagues, we welcome you in France to IPIN 2018 for its ninth edition to discuss scientific and industrial matters, experience geolocation competitions beyond the conference venue and enjoy the historical and cultural heritage of Nantes.

## The topics include, but are not limited to:

### Ubiquitous geolocation technologies

- Self-contained systems
- TOF, TDOA based Localization
- Frameworks for Hybrid Positioning
- Industrial Metrology & Geodetic Systems, AGPS
- Mapping, SLAM
- Indoor Spatial Data Model & Indoor Mobile Mapping
- Applications of Location Awareness & Context Detection
- Health and Wellness Applications
- Benchmarking, technology assessment and standardization
- Wearables and multi-sensors systems

### Connected intelligent urban mobility

- User Requirements
- Hybrid IMU Pedestrian Navigation & Foot Mounted Navigation
- Human Motion Monitoring
- Optical Systems
- Radar Systems
- Novel uses of maps and 3D building models
- Seamless Innovative Systems
- Location Privacy
- Locations based services and applications

### Indoor location sharing in IoT context

- High Sensitivity GNSS, Indoor GNSS, Pseudolites
- RTK GNSS with handheld devices
- Mitigating GNSS errors prior to moving indoors
- Signal Strength Based Methods, Fingerprinting
- UWB (Ultra WideBand)
- Passive & Active RFID
- Ultrasound Systems
- Localization, Algorithms for Wireless Sensor Networks
- Magnetic Localization
- Robotic and UAV

## Authors Schedule

|   |                      |
|---|----------------------|
| Deadline for regular papers submission:   | <b>Apr. 30, 2018</b> |
| Deadline for Work-in-Progress submission: | <b>Apr. 30, 2018</b> |
| Deadline for special sessions proposals:  | <b>Mar. 30, 2018</b> |
| Notification of acceptance:               | <b>Jun. 21, 2018</b> |
| Submission of final manuscript:           | <b>Jul. 9, 2018</b>  |



## Submission

The submission procedure will be found on the conference website and must follow the guidelines and template given. Authors can consider two types of submissions:

- **Regular Papers** (limited to 8 double-column pages)

- **Work-in-Progress -WIP-** (limited to 4 double-column pages)

All accepted papers will be included in the conference proceedings and regular papers presented at the conference will be also submitted to IEEE Digital Xplore.

Manuscripts must be submitted electronically in PDF format, according to online instructions. Both kind of papers will follow a peer review process to decide acceptance.

## Contact for information

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