



# IPIN 2016

SEVENTH INTERNATIONAL CONFERENCE ON  
INDOOR POSITIONING AND INDOOR NAVIGATION  
October 4-7, 2016 / Alcalá de Henares, Madrid, Spain

## CALL FOR PAPERS

Locating devices in indoor environments has become a key issue for many emerging location-based applications (LBA) in different fields. However, contrary to what usually happens outdoors with well-developed GNSS technology, nowadays there is no overall and easy solution. Despite a large-scale deployment of such location systems is not available yet, this strategic topic is called to lead technological innovations of great impact on the daily activities of people in the coming years, in areas such as health and independent living, leisure, security, etc. Since the first edition, IPIN 2010, held in Zurich (Switzerland) with about 450 participants from academia and industry, this conference has been an excellent forum to bring together researchers, developers and service providers in positioning and indoor navigation. Subsequent editions, held in Guimaraes (Portugal), Sydney (Australia), Montbéliard (France), Busan (Korea) and Banff (Canada), also have shown that there is a large and active community working in this sector. The 2016 edition will be held in the University of Alcalá, Madrid, Spain. It is planned to have seminar training, technical sessions, doctoral forums, exhibitions and competitions.

The conference encourages the submission of original contributions in one, but not limited to, of the following Indoor Positioning and Indoor Navigation topics:

- User Requirements
- Hybrid IMU Pedestrian Navigation & Foot Mounted Navigation
- Human Motion Monitoring
- High Sensitivity GNSS, Indoor GNSS, Pseudolites
- RTK GNSS with handheld devices
- Mitigating GNSS errors prior to moving indoors
- Self-contained sensors
- Signal Strength Based Methods, Fingerprinting
- UWB (Ultra-wideband)
- Passive & Active RFID
- Optical Systems
- Ultrasound Systems
- TOF, TDOA based Localization
- Localization, Algorithms for Wireless Sensor Networks
- Frameworks for Hybrid Positioning
- Industrial Metrology & Geodetic Systems, iGPS
- Radar Systems
- Mapping, SLAM
- Indoor Spatial Data Model & Indoor Mobile Mapping
- Novel uses of maps and 3D building models
- Magnetic Localization
- Innovative Systems
- Location Privacy
- Applications of Location Awareness & Context Detection
- Health and Wellness Applications

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## TECHNICAL PAPERS

Authors are invited to submit high-quality technical papers reporting original work, neither previously published nor currently submitted for consideration elsewhere. Authors can consider two types of submissions:

- Regular Papers (limited to 8 double-column pages and preferably for oral presentation)
- Work-in-Progress –WIP- (limited to 4 double-column pages, including oral or poster presentation)

Manuscripts must be submitted electronically in PDF format, according to the instructions published in the conference web site. Both kind of papers will follow a peer review process to decide acceptance. All the accepted papers will be included in the conference proceedings and regular papers presented at the conference will be also submitted to IEEE Digital Xplore.

Best papers (general and presented by students) will be awarded during the conference.

For both types of papers, authors have the opportunity to send technically extended version of presented conference papers to **IEEE Transactions on Instrumentation and Measurement (TIM)**. Please, see conference web page for details.

### Important dates:

Type of submission	Due:	Acceptance notification:	Final manuscript:
Regular paper	<del>May 15 - 2016</del> <b>May 30 - 2016</b>	June 25 - 2016	July 15 - 2016
Work-in-progress	June 30 - 2016	July 20- 2016	July 30 - 2016

## OTHER ACTIVITIES

During the conference, other activities are being organized including **Keynote Conferences, Competitions & Exhibitions, Industry Panel and Tutorials**. Please, visit the conference web page for more information.

## ORGANIZERS

### Conference Co-chairs:

Prof. Jesús Ureña, University of Alcala, Spain, ([jesus.urena@uah.es](mailto:jesus.urena@uah.es))

Prof. Kyle O'Keefe, University of Calgary, Canada, ([kpgokeef@ucalgary.ca](mailto:kpgokeef@ucalgary.ca))

### Steering Committee:

Dr. Rainer Mautz, Swiss Federal Railways, Switzerland

Prof. Adriano Moreira, University of Minho, Portugal

Dr. Binghao Li, University of New South Wales, Australia

Dr. Philippe Canalda, Université de Franche-Comté, France

Prof. Washington Y. Ochieng, Imperial College, United Kingdom

Prof. Hideo Makino, Niigata University, Japan

Dr. Daniel Aljadeff, Aeroscout/Stanley, Israel

Prof. Sverre Holm, University of Oslo, Norway



### Publication Chair:

Dr. Binghao Li, University of New South Wales, Australia

### Local Organizers:

Dr. Juan Jesús García (Local Co-chair), University of Alcalá, Spain

Dr. Álvaro Hernández (Local Co-chair), University of Alcalá, Spain

Dr. Fernando Álvarez, University of Extremadura, Spain

Dr. Antonio Jiménez, Spanish National Research Council (CSIC), Spain

Dr. Fernando Seco, Spanish National Research Council (CSIC) Spain

Prof. Manuel Mazo, University of Alcalá, Spain

Prof. José Luis Lázaro, University of Alcalá, Spain



## VENUE

The IPIN 2016 conference will take place at the School of Engineering from the University of Alcalá, in the city of Alcalá de Henares, Spain, 30 Km apart from the center of Madrid and from the International Airport of Madrid. The historical center of Alcalá de Henares with its old university is one of UNESCO's World Heritage Sites.

**2016 CONFERENCE WEB SITE:** <http://www3.uah.es/ipin2016/>

**E-MAIL:** [ipin2016@uah.es](mailto:ipin2016@uah.es)

**IPIN Conference Series Website:** <http://ipin-conference.org>