



## Call for Papers

# 13<sup>th</sup> Workshop on Positioning, Navigation and Communications (WPNC'16)

**Location: Bremen, Germany**
**Date: October 19-20, 2016**
**General Co-Chairs**

 Giuseppe Abreu, Jacobs University Bremen, Germany  
and Ritsumeikan University, Japan

Sven Zeisberg, HTW Dresden, Germany

**TPC Co-Chairs**

Oliver Michler, Technische Universität Dresden, Germany

Stefano Severi, Jacobs University Bremen, Germany

**Publication Chair**

James Irvine, Strathclyde University, UK

**Financial Chair**

Seiko Abreu, Innotec21 GmbH, Germany

**TPC members**

Adolf Finger, Dresden University of Technology, Germany

Alireza Ghods, Jacobs University Bremen, Germany

Bernard Fleury, Aalborg Universitet, Denmark

Benoit Denis, CEA-Leti, France

Bruce Denby, UPMC (Paris VI), France

Davide Dardari, DEIS-University of Bologna, Italy

Davide Macagnano, University of Oulu, Finland

Dimitri Ampeliotis, Techn. Inst. of Messolonghi, Greece

Dirk Slock, EURECOM, France

Erik Mademann, ZIGPOS GmbH, Germany

Francesco Sottile, Istituto Superiore Mario Boella, Italy

Giuseppe Destino, University of Oulu, Finland

Henk Wymeersch, Chalmers Univ. of Techn., Sweden

Jérôme Härrı, Eurecom, France

Lutz Lampe, The University of British Columbia, Canada

Mohamed Laaraiedh, Ecole Sup. des Comm., Tunisia

Nader Maoyeri, NIST, USA

Oliver Michler, Dresden University of Techn., Germany

R. Michael Buehrer, Virginia Tech, USA

Reiner Thomä, TU Ilmenau, Germany

Robert Piché, Tampere University of Technology, Finland

Rolf Kraemer, IHP, Germany

Ronald Raulefs, DLR, Germany

Sinan Gezici, Bilkent University, Turkey

Steffen Schön, Leibniz University of Hannover, Germany

Tolga Eren, Kirikkale University, Turkey

Usman Khan, Tufts University, USA

Youssef Nasser, American University of Beirut, Lebanon

**Scope**

Wireless location has played a center role in research and businesses in the wider Wireless Communications area, as demonstrated by its ever-increasing range of applications including logistics, traffic engineering, industrial production, retail, office and home automation, ambient assisted living, convenience, luxury, security and many more. In particular, major technological development efforts such as the Internet of Things, Cyber Physical Systems and more recently Connected Vehicles, are driving various advances in heterogeneous sensor data processing, fusion, energy efficient networking and cooperation, context awareness, highly automated information gathering and processing, privacy and security, etc., all of which benefit or require location. WPNC, the annual European event on **Positioning and Navigation** and energy efficient **Communication** continues to provide an international platform for exchanging latest research results and inputs from the industry. **Be part of the wireless ranging, positioning and energy efficient wireless networking revolution and submit your original contribution to WPNC 2016.**

**Awards**
**Best WPNC2016: Paper - Student Paper – Demonstration**
**Topics**

Authors are invited to submit contributions presenting scientific results, experimental and field trial system implementation evaluations addressing, but not limited to the following topics:

**Localization and Communication in Vehicle Networks**

Localization in VANETS

Location in Dynamic and Intermittent Networks

Localization for ITS

Simultaneous localization and mapping

Data Fusion and Localization

Cognitive positioning

**Positioning and Navigation in Cyber-Physical Systems**

Localization and Navigation for CPS

MAC Architectures for CPS Localization

Pedestrian/special forces navigation

Asset tracking

Positioning in Large Scale CPS

Location-based Control in CPS

Vehicle and robot navigation

Industrial process automation

**Ranging and Positioning techniques**

Ranging techniques

RFID based approaches

Active &amp; passive object tracking

Ultra-sound ranging

UWB ranging / UWB imaging

Positioning techniques

Inertial data positioning &amp; fusion techniques

Underwater localization

Propagation issues &amp; antennas

Cooperative localization

**Location-aided Communication and Applications**

Localization in robotics and automotive

Integrated positioning &amp; communication

Local/Global logistics application scenarios

Health, public transport, M2M, Smart Grid

**Robust and Secure Positioning**

Privacy in and security by localization

Secure ranging and localization

Outlier/NLOS robustness

Fundamental limits of secure positioning

**Energy efficient localization and radio communication**

Energy-accuracy and agility trade-off

Dedicated energy saving radio protocols

Energy harvesting

Asymmetric communications

**Submission Guidelines**

**Full Papers** (max. 6 pages) or **Extended Abstracts** (2-5 pages) may be submitted electronically in **PDF-format** in English language to <http://wpnc16.trackchair.com> until **21<sup>st</sup> of July 2016 (extended)**. All accepted papers will be submitted for publication to IEEE Xplore.

**Technical Exhibitions and Demonstrations**

Technical exhibitions and demonstrations addressing the workshop's scope are welcome. For further details, please send an email to [contact@wpnc.info](mailto:contact@wpnc.info) or call/SMS to +49 176 6135 6751.

**Important Dates**

Submission of <b>Full Papers/Extended Abstracts:</b>	June	30 <sup>th</sup>	2016
	<b>Deadline extended:</b>	<b>July</b>	<b>21<sup>st</sup> 2016</b>
Notification of acceptance:	August	31 <sup>st</sup>	2016
Submission of Camera Ready Manuscripts until:	September	30 <sup>th</sup>	2016