



WPNC

Workshop on Positioning,
Navigation and Communication



IEEE



Vehicle Technology Society
Connecting the Mobile World

Call for Papers – Extended Deadline

10th Workshop on Positioning, Navigation and Communication 2013 (WPNC'13)

Location: Dresden, Germany

March 20-21, 2013

General Co-Chairs

Giuseppe Abreu, Jacobs University Bremen, Germany
Sven Zeisberg, HTW Dresden, Germany

TPC Co-Chairs

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R. Michael Buehrer, Virginia Tech, USA

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TPC members (tentative)

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Youssef Nasser, American University of Beirut, Lebanon

Scope

Localization is touching every aspect of our everyday life. Advanced location aware services are enabled by ranging and positioning techniques attracting great attention from scientists and industry alike. Recent advances in heterogeneous sensor fusion, p2p-networks, context awareness, privacy and security are enabling new system solutions and bring in new challenges to be solved at the same time. WPNC, the premier event on Positioning and Navigation in Europe, continues to provide an international platform for exchanging latest research results and inputs from the industry. Be part of the positioning revolution and submit your original contribution to WPNC 2013.

WPNC 2013 is going to continue the successful row of preceding events and to extend it by substantial keynote speeches, in-depth tutorials and a growing number of industrial participation. Visit <http://www.wpnc.net> to be up-to-date to the latest program.

WPNC'13 will be preceded by the 1st Contest on Localization Algorithms in Dresden on 19th of March. The participants will compare their localization algorithms based on given distance datasets and evaluation metrics. Interested workgroups are welcome to join.

Awards

Best WPNC2013 Paper - Best WPNC2013 Student Paper – Best WPNC2013 Demo

Topics

Authors are invited to submit papers presenting scientific work, practical implementations or application scenarios addressing, but not limited to the following topics:

Context awareness in localization

Semantic localization
Location and behavior modeling
Cognitive position

Simultaneous localization and mapping
Localization in sensor networks

Ranging/Positioning techniques

RFID based approaches
Active & passive object tracking
Ultra-sound ranging
UWB ranging / UWB imaging

Inertial Data fusion techniques
Underwater localization
Propagation issues & antennas
Cooperative localization

Navigation

Pedestrian/special forces navigation
Asset tracking

Vehicle and robot navigation
Industrial process automation

Localization related R&D projects

Localization for the Internet of Things
UWB ranging techniques

Positioning techniques
Location-aided communications

Location aided Communication and Applications

Localization in robotics and automotive
Integrated positioning & communication

Local/Global application scenarios
Health, public transport, M2M, Smart Grid

Robust and Secure Positioning

Privacy in localization
Secure ranging and localization
Anti-jamming techniques

Location based security
Fundamental limits of secure positioning
Outlier/NLOS robustness

Energy efficient localization

Complexity reduction
Traffic reduction

Energy-accuracy trade-off
Energy harvesting for localization

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://wpnc13.trackchair.com/> until 13th of January 2013. The workshop proceedings will be published electronically on data storage device and online in the IEEE Xplore database.

Student Grant

A limited number of student grants are available on request.

Technical Exhibitions and Demonstrations

Technical exhibitions and demonstrations addressing the workshop's scope are welcome. For further details, please contact info@wpnc.net or call/SMS directly +49 163 1493489.

Important Dates

Submission of **Full Papers/Extended Abstracts**: **extended to January 13th, 2013**
Notification of acceptance: **January 30th, 2013**
Submission of Camera Ready Manuscripts until: **March 4th, 2013**