

## CALL FOR PAPERS: IEEE International Workshop on Advances in Network Localization and Navigation (ANLN)

### Workshop Chairs

Davide Dardari (Univ. of Bologna) (*leading chair*)  
Klaus Witrisal (Graz Univ. of Tech.) (*leading chair*)  
Andrea Conti (Univ. of Ferrara)  
Bernard Fleury (Aalborg University)  
Tony Quek (Singapore Univ. of Techn. and Design)  
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### Technical Program Committee Members

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### Topics of Interest include (but are not limited to):

- Fundamental limits
- Propagation and mobility models
- Ranging techniques
- Cooperative localization and navigation
- Cognitive localization and navigation
- NLOS identification & mitigation algorithms
- Anchor-free localization and navigation
- Wireless sensor radars
- Passive localization systems
- Radiofrequency identification and localization
- Positioning using source-of-opportunity signals
- Energy efficient positioning systems
- Hybrid positioning and data fusion from heterogeneous technologies
- Seamless indoor/outdoor localization
- Field tests for network localization and navigation

### Workshop Description

The ability to locate and seamlessly track assets in indoor or dense urban environments without access to GPS is a complex and challenging task mainly due to the harsh multipath environment and the high probability of non-line of sight (NLOS) propagation conditions. The value of accurate range/position information is the key requirement for many emerging applications in the public safety, commercial, and residential domains, such as locating fire fighters or objects and instruments in warehouses and hospitals.

While extracting accurate location information is fundamental to the design of positioning systems, cooperative and cognitive positioning algorithms exploiting short-range communication links can enhance robustness. For example, in cognitive radio networks, geo-location and context-aware algorithms can support sensing methods to overcome e.g. the hidden node problem. Machine learning techniques take advantage of heterogeneous technologies to track mobile nodes using cooperative or non-cooperative sensor networks.

The goal of the workshop is to disseminate advances in active and passive network localization and navigation, especially the development of new positioning algorithms based on short-range wireless communications. This workshop will bring together academic and industrial researchers to identify and discuss technical challenges and recent results related to short-range positioning.

This Workshop is organized in part by the EU Research Projects SELECT and WHERE2, the European COST Action IC1004, European Commission Marie Curie International Outgoing Fellowship under Grant 2010-272923 and the Austrian National Research Network SISE.

### Important Dates

Registration of abstracts:	Jan. 4, 2013
Full paper submissions:	Jan. 11, 2013
Notification of acceptance:	Feb. 22, 2013
Final manuscript:	Mar. 8, 2013

Please submit contributions through EDAS  
<http://edas.info/N13449>

WORKSHOP WEBSITE:  
<http://icc2013.spsc.tugraz.at/>

### Contributions

Papers should be in English, strictly not exceeding 5 double-column pages. Authors should use the relevant IEEE template, ensuring IEEE Explore compatible PDF-format. Papers will be published in IEEEExplore under "IEEE Intern. Conference on Communications Workshops". Please note that at ICC2013 authors will be required to present their papers in person to qualify for publication of their papers in IEEEExplore.