



IEEE pimrc'17

28th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications  
08-13 OCTOBER 2017 // MONTREAL, QUEBEC, CANADA

Perswade

IEEE ComSoc  
IEEE Communications Society

IEEE

SPECIAL CELEBRATION-YEAR EDITION!

CALL FOR WORKSHOP PAPERS

www.pimrc2017.org

## WORKSHOP WS-05 ON PERSONALIZED MOBILE APPLICATIONS FOR SMART CITIES AND SMART CITIZENS (PMA2017)

### SCOPE

The key challenges in the success of mobile applications are the ability to personalize to the customer requirements, and the trustworthiness of the application through security and dynamic update of information. This workshop explores potentials and constraints of personalization of mobile applications and challenges for smart cities and smart citizens. New techniques and methodologies for personalization such as indoor localization, bi-channel communication between service providers and users are within the scope of the workshop. Furthermore, processes for user-centric design such as co-creation, techniques for secure access and dynamic data updates for secure smart cities and smart citizens are of special interest. As a novel and exciting addition, **this workshop includes a specialist tutorial session on "Co-creation technique - the user-centric living labs approach"** presented by Mr. Grahame Smith, Head of Allied Health at LJMU. The participants for the tutorial session will be selected based on their **EOI expressed** through a short description. **Also our industry partners will run a product "elevator pitch" session (EOI required)**. Brief descriptions of the intended panel sessions are given below.

- **Mobile applications for mission critical services such as disaster recovery:** This session will explore novel intelligent mobility models and protocols to provide temporary communication infrastructure in effectively managing the rescue operation.
- **Personalized mobile applications in transport for smart cities:** One of the deciding factors on a city's status as a smart city are the transport facilities. The transport sector has been working hard to enhance the end-to-end journey experience of their customers. In recent years, there have been several calls for funding applications focusing on this theme. In addition, they also explore ways of enhancing the user experience through stations. The challenges for this focus could be personalizing the information provided to the user, the ability to locate the user indoors/underground, facilitating bi-channel communication between service providers and service users. This session will explore new techniques for indoor location, personalization, dynamic data analysis or cloud computing for providing quality of service for smart cities.
- **Personalized mobile applications in healthcare for smart citizens:** Mobile applications in the healthcare sector have increased rapidly, all vying for the customer base that want to take control of their health and independent living. However, the success depends on the application's ability to sustain user engagement. Co-creation or participatory design as termed by the health and psychology experts is a proven way of motivating the users and sustaining their engagement with the tool. This session will explore techniques and methodologies for co-creation. Lessons learned from challenges and benefits gained from opportunities in healthcare applications will also be explored.

- Techniques and algorithms for indoor location
- Mobile applications for user experience through stations
- Privacy and security in mobile applications
- Co-creation or participatory design techniques
- Smart interactions of mobile applications for enhancing user experience.

EDAS submission link: <https://edas.info/N23910>

Accepted and presented papers will be published in the IEEE PIMRC 2017 Conference Proceedings and submitted for inclusion in IEEEExplore®.



### IMPORTANT DATES

Review paper submission: **28 July 2017**  
Notification of acceptance: **11 August 2017**  
Camera-ready submission: **18 August 2017**

### WORKSHOP WS-05 CO-CHAIRS

**Nik Bessis**, Edge Hill University, UK  
**Keeley Crockett**, Manchester Metropolitan University, UK  
**Mesut Günes**, University of Magdeburg, Germany  
**Princy Johnson**, Liverpool John Moores University, UK (**Lead Co-Chair**)  
**Sergio Toral Marín**, University of Seville, Spain

### MORE INFO

E-mail: [workshop.ws-05.co-chairs@pimrc2017.org](mailto:workshop.ws-05.co-chairs@pimrc2017.org)

Workshops webpage: <http://pimrc2017.ieee-pimrc.org/authors/call-for-workshop-papers/>

### TOPICS

The workshop co-chairs invite original research papers under one of the three categories listed above. All papers will be peer reviewed. The topics of interest include, but not limited to:

- Communication interface for user interactions with smart devices
- Data analytics techniques for dynamic updating of information