



ACM MobileHealth 2018 Workshop Co-located with ACM MobiHoc 2018 June 26-29, 2018 Los Angeles, USA

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DEADLINES:

Papers submission deadline: **1 April 2018**
Acceptance notification: **30 April 2018**
Camera-ready submission: **10 May 2018**

WEB SITE

<https://www.sigmobile.org/mobihoc/2018/workshop-mobile-health.html>

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CALL FOR PAPERS

8th ACM MobiHoc Workshop on Pervasive Wireless Healthcare (MobileHealth 2018)

Health cost represents a considerable ratio in the economic budget of developed countries, and certain tendency studies are not optimistic about an improvement in the situation. Average age of the population tends to increase and the number of people requiring more or less care intensive medical monitoring is not small. This increases overall cost of medical care. No doubt, using socio-medical establishments to place people at risk under surveillance is impractical for cost reasons, but also for reasons of quality of life. Many of these people are fully autonomous, though weakened. Their psychological confinement due to the presence of nursing staff would be a breach of their freedom. Therefore, partially replacing the assistance of nursing staff by small health surveillance and communication equipment like sensors, networks, monitoring software could be cost effective and would increase life standard. The objective is to develop and implement innovative solutions based on information technologies and wireless communication for the benefit of those needing medical permanence. Recent Advances in technology has led to the development of small, intelligent, wearable sensors capable of remotely performing critical health monitoring tasks and then transmitting patient's data back to health care centers over wireless medium. Such wireless health monitoring platforms aim to continuously monitor mobile patients needing permanent surveillance. Patients benefit from continuous ambulatory monitoring as a part of a diagnostic procedure, optimal maintenance of a chronic condition or during supervised recovery from an acute event or surgical procedure.

However, to set up such platforms several issues along the communication chain should be resolved. The acquisition of medical information via a set of wireless sensors embedded in the patient himself, the treatment and use of this information either by a local contractor equipment or offset after transfer in 3G/4G/5G and/or WiFi/HEW connection to a data server, the access to the collected data, ...etc. are some of the important challenges that we have to consider. Each level represents a complex subsystem with a local hierarchy employed to ensure efficiency, portability, security, and reduced cost.

MobileHealth workshop aims to provide a forum for the interaction of these multiple areas as an important chance to discuss and understand what aspects have to be considered to provide effective pervasive wireless healthcare systems. The theme of the 2018 edition of MobileHealth is **Improving the Smart Cities Citizens Healthcare**

The Technical program topics include, but are not limited to:

- Mobile devices for healthcare
- Scalability, performance and reliability of mobile healthcare apps
- Energy efficiency in Wireless health monitoring
- Wearable and Implantable Wireless sensors for healthcare
- Pervasive Wireless communications in healthcare
- Pervasive Healthcare Systems and Services
- Communications and computing infrastructure for mobile healthcare apps
- Service and device discovery
- Authentication and Sensors' monitoring
- Protocols for wireless healthcare
- Data fusion and context elaboration
- Confidentiality and Data Security
- Big data analytics
- Wireless monitoring and ambient assisted applications for healthcare
- Mobile Interfaces for Data Visualization
- Realizations and Platforms
- Standards for mobile healthcare

Submission Instructions:

Papers should be submitted via <https://mobilehealth18.hotcrp.com/>
Papers should not exceed 10 pages (US letter size) double column including figures, tables, and references in standard ACM format. Papers must be submitted electronically in printable PDF form. Templates for the standard ACM format can be found at <https://www.acm.org/publications/proceedings-template>. If you are using LaTeX, you can make use of a simplified ACM conference template: <https://github.com/conference-websites/acmart-sigproc-template>. No changes to margins, spacing, or font sizes are allowed from those specified by the style files. Papers violating the formatting guidelines will be returned without review. All submissions will be reviewed using a **single-blind** review process. The identity of referees will not be revealed to authors, but author can keep their names on the submitted papers, on figures, bibliography, etc.

