Personal and Ubiquitous Computing

special issue on

Wearable Systems for e-Health and Wellbeing

Call for papers

Wearable devices, such as smartwatches and fitness bands, are becoming a key element of our lives, as they are used in an increasing number of activities (e.g. during sport sessions for keeping track of energy expenditure, or when walking as unobtrusive pedestrian navigation systems). In general, these devices are worn continuously throughout the day and thus provide the opportunity to gather information about their users with unprecedented levels. In addition, many wearable devices are directly worn over the skin and they may include sensors not available on common smartphones (e.g. for monitoring the user's heart rate). As a consequence, they are particularly suitable for those medical applications where continuous monitoring is fundamental. At the same time, the massive amount of information collected through these devices is enabling novel applications in the context of e-health and wellbeing. For instance, it is known that abundance of information promotes an effective management of patients' condition, and a well-informed patient is more likely to conduct a healthy lifestyle.

This special issue aims to collect recent, original research in the area of wearable systems for e-health and wellbeing. Papers that report on techniques, systems, and experiments that fit in the mentioned scenario and potentially interesting for the readers of Personal and Ubiquitous Computing are welcome.

Topics of interest include (but are not limited to):
- Smartwatch-based applications for a healthy lifestyle
- Dedicated wearable systems and architectures for e-health and wellbeing
- Performance evaluation of wearable systems in e-health and wellbeing
- Novel techniques and applications for wearable systems in e-health and wellbeing
- Wearable systems for diagnosis and assessment of medical conditions
- Detection of anomalies through wearable systems
- Security and privacy in e-health and wellbeing applications based on wearable systems
- Wearable systems for older adults
- Experimental evaluation of wearable systems for e-health and wellbeing

Important dates
- Submission: November 30th, 2016
- First notification: January 31th, 2017
- Submission of revised version: March 7th, 2017
- Final notification: April 15th, 2017

Submission instructions
Manuscripts should follow the guidelines of the Personal and Ubiquitous Computing journal (available here: http://www.springer.com/computer/hci/journal/779). All articles to be considered for publication in this special issue must be submitted using this site:
https://easychair.org/conferences/?conf=siwsehw2017

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