

Call for Papers: Special issue on wearable computing techniques for intelligent health

Wearable computing is the study or practice to invent, design, build, or use miniature body-worn computational and sensory devices. Wearable computing devices can provide not only very specific, limited features such as heart rate monitoring and pedometer capabilities but also advanced “smart” functions and features. Recent advances in telecommunications, microelectronics, sensor manufacturing and data analysis techniques have opened up new possibilities for using wearable technology in the digital health ecosystem to achieve a range of health outcomes. Many wearable tech products use multiple digital health sensors that are typically integrated into sensor networks comprising other body worn sensors and ambient sensors. Some monitoring systems require the integrated sensors and wearable data to be uploaded to a remote site such as a hospital server for further clinical analysis. With the advent of cloud-computing, many wearable sensor systems can now be easily upgraded without the need of installing software by users in their monitoring devices, which makes it easier and cheaper to maintain the health monitoring system networks.

This special issue aims to publish the latest research advances on the research and application of intelligent health using wearable computing. Potential topics including but not limited to:

- ✓ Wearable sensor applications in clinical trials, short or long term hospitalization
- ✓ Wearable computing in ubiquitous, pervasive and mobile healthcare solutions
- ✓ Wearable sensors for physiological parameter monitoring
- ✓ Real-time computing techniques for intelligent health
- ✓ Smart telemonitoring systems for intelligent health
- ✓ Predictive Modelling for Improving Healthcare
- ✓ Emerging eHealth IoT Applications
- ✓ Optimization of Healthcare Systems and Data Transmission
- ✓ Wearable prototypes in human-subject studies
- ✓ Robotics, Intelligent Medical Devices and Smart Technologies enabled by IoT for intelligent health
- ✓ Caring robots and assistant equipment
- ✓ Internet of Things (IoT) System Architectures in Healthcare
- ✓ Remote patient monitoring

Submission and Proceedings

Papers should be of 12 pages or longer and adhere to the guidelines given on the Journal submission site: <http://www.mstracker.com/submit1.php?jc=jaise>

Authors must clearly indicate in the cover letter their intention to submit their work to this Thematic Issue.

Prospective authors are encouraged to contact the thematic issue editors (by email) in advance, indicating a tentative title of the paper.

Journal web-site

<http://www.iospress.nl/journal/journal-of-ambient-intelligence-and-smart-environments/>

Important dates:

Deadline for submission: 15 January, 2019

First notification of Acceptance/Rejection: 15 April, 2019

Deadline for submission of revised manuscripts: 15 June, 2019

Final notification of Acceptance: 15 July, 2019

Deadline for final paper: 15 August, 2019

Guest Editors

Dr. Weiping Zhang

Vice Dean

Binhai Industrial Technology Research Institute of Zhejiang University

Tel: +86-22-59060625

Mobile: +86-18221315651

Email: zhangweiping@zjubh.com

Dr. Mohit Kumar

Professor-Department of Computers and Electrical Engineering

Rostock University, Germany

Director-Zhejiang University, China

Email: mohitkumar@zjubh.com / mohit.kumar@uni-rostock.de

Dr. Davy Preuveneers

Research Manager - imec-DistriNet-KU Leuven

Department of Computer Science - <http://www.cs.kuleuven.be>

DistriNet - <http://distrinet.cs.kuleuven.be>

Celestijnenlaan 200A, B-3001 Heverlee (Leuven), Belgium