Topical Collection on
Wearable Computing Techniques for Smart Health

Wearable computing is the study or practice of inventing, designing, building, or using miniature body-borne computational and sensory devices. Wearable computing devices can range from providing very specific, limited features such as heart rate monitoring and pedometer capabilities to 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 gathered sensor 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 for user installation of software in their monitoring devices, which makes it easier and cheaper to maintain the health monitoring system networks.

The goal of this Topical Collection is to publish the latest research advances on the research and application of smart health using wearable computing.

Potential topics included, 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 smart health
- Smart telemonitoring systems for smart 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 smart health
- Caring robots and assistive equipment
- Internet of Things (IoT) System Architectures in Healthcare
- Remote patient monitoring

Important dates:

Submission deadline: 30 January 2019
First notification of Acceptance/Rejection: 15 March 2019
Revised manuscripts Submission Deadline: 15 May 2019
Final notification of Acceptance: 15 June 2019
Final Paper Due: 15 July 2019
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