Abstract
With the development of smart sensorial media, things, and cloud technologies, “Smart healthcare” is getting remarkable consideration from the academia, the governments, the industry, and from the healthcare community. IoT enabled technology is also transferring the traditional hubs of healthcare to personalized healthcare systems. Successful utilization of IoT enabled technology in healthcare facilitates efficient diagnoses and treatment, low costs, improvement of doctor-patient relationships, personalized treatment and enhanced sustainability. However, empowering the utility of IoT enabled technology and promoting big data as a source of innovation in healthcare systems is still challenging due to the lack of standardization of IoT system architectures, heterogeneity of utilized wearable devices, multi-dimensionality and high volume of data sets, and high demand for interoperability. Thus, the studies in this field entail a wide range of topics from improving algorithms for extracting relevant data to finding novel applications for developed technologies.

Outline
The aim of this special session (SS) is to report high-quality research on recent advances toward IoT-cloud convergence for smart healthcare, more specifically to the state-of-the-art approaches, methodologies and systems for the design, development, deployment and innovative use of these convergence technologies for providing insights into smart healthcare service demands. Prospective authors are invited to submit manuscripts for review for publication in this special session.

The SS on IOT4SH focuses on the following very active research areas of healthcare, but is not limited to:
- Smart Healthcare
- Wearable and ambulatory Sensor Systems
- Medical and Sensor Data Stream Processing
- Machine Learning for Signal Processing
- Emerging eHealth IoT Applications
- Cloud Technologies for Healthcare
- Intelligent Data Processing and Predictive Algorithms in eHealth
- Telemedicine/Healthcare Applications
- Wellness and Health Management Applications
- Security, Safety and Privacy in eHealth and IoT
- Interoperability and Standardization Issues in IoT and Healthcare
- Wireless Sensor and Actuator Networks
- Life-logging Devices and Technologies
- Service-oriented Technologies for IoT Healthcare
- IoT Data Management
- Mining and Exploration Framework for Healthcare Data
- Digital Health
- Knowledge Discovery on IoT Healthcare Data
- Robotics-based Healthcare Applications
- Network Communication for Health Sensor Data
- Data Fusion, Integration, Knowledge Management and Engineering


Distinguished papers selected from IOT4SH -2018, after further extensions, will be recommended for submission and publication in the Journal of Medical & Biological Engineering & Computing

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