Call for Papers
Special issue on
Healthcare Applications: From Sensor to Cloud
Journal of Communications Software and Systems (JCOMSS)

Fostering IoT and Cloud services brought e-Health to become one of the major research topics that have been attracting cross-disciplinary research groups. The deployment of new emerging ICT technologies for Health, especially based on Cloud computing, Internet of Things (IoT), and Computational Intelligence, is attracting the interest of many researchers.

The use of Cloud computing, IoT technologies, and methods typical of Soft Computing and Computational Intelligence have been very prominent recently and can be of great help in finding good solutions to many practical healthcare applications. For instance, health monitoring, health data storage, health data collection, mobile health, pervasive health, healthcare monitoring, telemedicine, context-aware computing, ubiquitous computing, processing health data in the cloud, securing health data in the cloud and Assistive Technology (AT) are areas of interest that are being addressed using cloud computing and IoT techniques. On the other hand, several challenging issues have raised due to the adoption of such emerging technologies. These include the quality of health data, the ability to retrieve information and use it in health context, as for example in tasks related to machine learning, knowledge discovery, decision support, regression, forecasting, optimization, feature selection, and additionally privacy and security issues of health data while being processed in the cloud, availability of health data, models of context and tele-monitoring of contextual applications. Researchers from various engineering areas, as well as industry, government, and medical centers are invited to provide their input on these subjects.

Topics of interest include, but are not limited to:

- Cloud computing applications for eHealth
- Internet of Things (IoT) applications for eHealth
- Assistive Technology (AT).
- Informatization, Management and Organization of BME Environments
- Bioinformatics and Computational Biology and Medicine
- Communication, Networking and Monitoring in Bio-systems
- Monitoring of Vital Functions with Sensor and ICT Systems
- Biosensors and Sensor Networks
- Advanced Bio-signal Processing
- Distributed BME Applications
- Telehealth, Telecare, Telemonitoring, Telediagnostics
- e-Healthcare, m-Healthcare, x-Health
- Assisted Living
- Smartphones in BME Applications
- Social Networking, Computing and Education for Health
- Computer Aided Diagnostics
- Improved Therapeutic and Rehabilitation Methods
- Intelligent Bio-signal Interpretation
- Data and Visual Mining for Diagnostics
- Advanced Medical Visualization Techniques
- Personalized Medical Devices and Approaches
- Modelling and Computer Simulations in BME
- Human Responses in Extreme Environments

- Other Emerging Topics in BME
- E-Accessibility
- Web accessibility
- Hardware & Software personalized assistive technologies
- Assistive systems for users who are blind or visually impaired
- Cloud computing and AT
- Integration between home-based assistive technologies and patient health data
- User-centered design of electronic assistive technologies
- Usability of assistive technologies
- Computer vision in AT
- User interfaces for home-based assistive technologies
- Use of prescription systems and assistive technologies
- Experience from real world assistive environment deployment
- Assistive Technologies for Urban Environments
- Healthcare modeling and simulation
- Knowledge discovery and decision support
- Biomedical data processing
- Wearable devices
- Sensor-based mHealth applications.

Authors wishing to submit papers for this SI should prepare the manuscript according to the Author Guidelines (https://jcoms.fesb.unist.hr/author-guidelines/) and submit it by pressing SUBMIT AN ARTICLE. Submissions must be original and should not have been previously published or been under consideration for publication while being evaluated for this Special Issue. Only extended papers from the International Conference on Smart and Sustainable Technologies (SpliTech 2022) are free of charge. All other authors are required to pay an article processing charge of 250 EUR after the article has been accepted for publication.

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IMPORTANT DATES	
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