



IISA 2018 – The 9th International Conference on
Information, Intelligence, Systems and Applications

4th Special Session on Smart Health and Well-being within Context-Aware Environments

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Aims and Scope

The provision of healthcare is globally changing to cope with an increasingly demanding population. The use of information and communication technologies (ICT) in health care led to the appearance of electronic health (e-Health) and mobile health (m-Health). In smart cities and context-aware environments, the concept of smart health (s-Health) has been proposed as a step forward in the provision of health services within environments with sensing capabilities.

The aim of this special session is to explore recent advances in smart health and well-being and to identify the challenges and opportunities that this research area will face soon. Smart health is gaining special attention because it has an enormous potential to improve other well-established e-health and m-health solutions. The remote monitoring of patients is an example in which smart health could contribute to reduce the costs of national healthcare systems and to improve the quality of life of patients. Also, the analysis of environmental factors and their relationship with diseases is fundamental for the promotion of healthy habits within context-aware environments. However, there are many challenges to be faced to make smart health a reality, namely security, privacy, scalability, costs, efficiency, etc. In this special session, we will analyse both the opportunities and open challenges in the field.

<u>Topics (in alphabetical order)</u>	Important dates
<ul style="list-style-type: none"> • Big Data Analysis in s-health and smart environments • Communication infrastructure and radio-planning for s-Health • Complex Networks and Models for s-Health • Computational biology in s-Health • Deep Learning / Imbalanced Learning in s-Health • Evolutionary computing for s-Health • Market impact and analysis of s-Health • Pilot tests and case studies of s-Health and smart environments • Real experiences of m-health and s-health applications • Security and Privacy in Health care devices and infrastructure • Smart rehabilitation • Wearable devices for s-Health 	<p>Paper submission (extended) May 30, 2018</p> <p>Author notification June 5, 2018</p> <p>Camera-ready June 15, 2018</p> <p>Conference July 23-25, 2018</p>

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