



## Call for Papers for the exp.at'19 Special Track STIMHA'19 "Smart Technologies and Interactive Media for Health Applications"

Experiment@International Conference 2019, *exp.at'19*, <http://expat.org.pt/expat19/>

*exp.at'19* is the 5<sup>th</sup> event of the conference series *exp.at'xx*. The conference will be held at the University of Madeira (Funchal, Madeira Island, Portugal) on June 12-14, 2019, and it is a joint organization of University of Porto and University of Coimbra with the collaboration of University of Madeira. The conference will feature the technical support of IEEE (IEEE Industrial Electronics Society and IEEE Education Society) and the Portuguese Engineers Association.

*STIMHA'19* aims to bring together researchers and practitioners and highlight the latest developments in embedded technologies, sensors and interactive systems in health applications. In the last years, there has been increasing interest in the application in the health domain of embedded systems, of novel sensing technologies together with entertainment technologies and interactive media to visualize and interpret health data, to allow individualized treatments, to facilitate learning motivation, or to provide patients with enjoyable coaching systems for homework exercises, just to name a few examples. For in-stance, the uses of Gamification, Virtual Reality and Information and Communication Technologies (ICTs) are exponentially increasing in the field of rehabilitation, mental health and functional fitness, with clinical results that prove their effectiveness. This special track invites authors to submit contributions on concepts, applications, techniques or environments where smart systems and/or interaction design play a central role in improving health practices at all levels.

### Topics of Interest (not limited to):

- Virtual and enhanced environments
- Balance, posture and mobility
- Input devices, sensors and actuators
- Motor rehabilitation
- Serious Games and Exergames
- Clinical assessment
- Cognitive Stimulation
- Biosignals, Neuroimaging and Biodevices
- Sensory impairment
- Medical systems
- Multi-user systems for user interaction
- Computer access
- Virtual humans
- Communications aids
- Signal Processing in Human Movement
- Sport Performance and Support Technology
- Product design, testing and prototyping
- Training tools
- Augmented reality applications
- Human factors
- Rehabilitation robotics

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## Important Dates

Submission of full papers (4-6 pages) February 1, 2019	Early Author registration April 15, 2019
Notification of acceptance March 15, 2019	Pre-conference Activities June 11, 2019
Camera-ready due April 15, 2019	Conference dates June 12-14, 2019
	Social Activities June 15, 2019

## Conference Language, Review Process and Publications

The official language of the Conference is English. The articles and extended abstracts (demos) will be under double blind peer review process. Accepted papers and demos will be published in electronic format and will be submitted for acceptance into the IEEE Xplore® paper database. IEEE Xplore® will index accepted papers and demos meeting IEEE requirements of content and format. A number of selected, high-quality, papers will be invited for publication in international journals.

## Submission

Articles (full papers with 4-6 pages) submitted to exp.at'19 will follow the EasyChair platform.

## *exp.at'19* General Chairs

Alberto Cardoso  
University of Coimbra, PT

Maria Teresa Restivo  
University of Porto, PT

## *STIMHA'19* Special Track Chairs

Sergi Bermúdez i Badia  
University of Madeira - M-ITI, PT

Élvio Rúbio Gouveia  
University of Madeira - M-ITI, PT

Mónica da Silva Cameirão  
University of Madeira - M-ITI, PT