

Call for Papers pHealth 2012

Porto, Portugal

June 26 – 28, 2012

<http://www.phealth2012.com>

The 9th International Conference on Wearable Micro and Nano Technologies for Personalized Health (pHealth) has emerged as the leading international meeting on wearable micro and nano technologies for personalized medicine. Starting in 2004, pHealth has attracted scientists for various technologies, medical doctors, and policy makers from the healthcare industry, hospital administration and allied professionals.

Collecting a dynamic professional community from Europe and all over the world pHealth has given visibility to the tremendous potential of micro and nano technologies not only for the future of medicine, but also for the improvement of healthcare processes today.

Microsystems, smart textiles, telemedicine, smart implants and sensor-controlled medical devices have become important enablers for monitoring and treatment in both inpatient and outpatient care.

This is, however, just the beginning of revolutionary changes and significant opportunities are given for patients, companies and the healthcare industry.

The multilateral benefits of pHealth technologies for all three stakeholders lead to a triple win situation with enormous potential, not only for medical quality improvement and industrial competitiveness, but also for managing healthcare cost. We welcome you to the city of Porto for the pHealth conference to share experiences and results!

Awards

The scientific program committee will designate one paper accepted to the conference as pHealth 2012 Best Paper, Best Demo, and Best Poster. The winner(s) will be declared at end of the conference.

Topics

The conference organizers are interested in innovative papers describing knowledge beyond the state of the art. Topics of interest in relation to the session structure include, but are not limited to:

- **Personalized Health and Social Care the Industry Perspective**
 - Health management in the home environment
 - Economics and misuse of health scenarios
 - Assistive technologies for Home care
 - Technology acceptance studies
- **Applications of Smart Wearable Sensors**
 - Body sensors and sensor networks for ubiquitous computing
 - Vital signs parameters and signal processing
 - Textile sensors for biomedicine and intelligent garments
 - Contactless wearable technology
- **Physical and Cognitive Fitness and Wellbeing**
 - Game-related assistive technologies for people with disabilities and elderly
 - Promotion of including elderly in technology use and social networking
 - Serious games for physical and mental treatment and rehabilitation
 - Case studies linking cognitive stimulation with improved mental health outcome

- **User Requirements and Adaptive System Architectures**
 - Architecture / middleware mapping ambient intelligence
 - Multi-user interaction / cooperation / user scenarios
 - Novel user interfaces and interaction techniques
 - Architecture and Infrastructure for Mobile Intelligent Information Systems
- **Emerging Medical Technologies and Embedded System Solutions**
 - Micro-Electromechanical Systems (MEMS)
 - Bioimpedance plethsmography
 - Electrical impedance tomography
 - Endobronchial valves
- **Robotics and Instrumentation for Monitoring & Therapy**
 - Biomedical engineering
 - Human adaptive robotics
 - Unmanned vehicles
 - Robot-assisted applications

Publications

Submission to pHealth 2012 includes full papers and demonstrations abstracts. The organizers do not encourage the submission of posters. Papers that tend to be better presented as posters will be recommended to the authors by the organizers.

Full papers are scientific papers, future vision papers or review papers related to methodologies and/or applications. Full paper structure includes: title, names, and affiliations (city, state, and country) of all authors, abstract (up to 200 words), 4-6 keywords. The body of the text shall include: introduction, methods, results, discussion, and references. The maximum length of a paper submission is four A4 camera-ready pages, and should strictly follow the formatting rules of the provided [IOS Press template](#). All submitted papers will be subject to a peer-review process by three independent reviewers. Accepted full papers will be included in the pHealth 2012 proceedings published by IOS Press. The presentations are planned to be available on the conference website. Oral presenters of accepted full papers are allocated 15 minutes, discussion included.

Full papers which are not included in the pHealth 2012 scientific program (as oral presentations) will be invited to prepare and present a poster. The camera-ready full paper will nevertheless be included in the proceedings.

For dynamic demonstrations another template exists. Submitters of proposals for demonstrations are required to fill in all the mandatory template information and should follow the formatting rules of the provided [Demonstration template](#). These abstracts will not be included in the proceedings but will be available on the conference website.

Paper Submission

All papers formatted in accordance with the [IOS Press template](#) instructions have to be submitted through the conference online system at: <http://www.phealth2012.com/submission/>

Important Dates

Submission: March 10th

Notification of Acceptance: March 31st

Author registration: April 15th

Demonstrators Submission: April 15th

Camera-ready papers: April 15th

Conference Date: June 26th – 28th