

Call for Papers

4th international workshop for

“Situation recognition and medical data analysis in Pervasive Health environments” (PERVASENSE2012, www.pervasense.org)

to be held in conjunction with the 6th International ICST Conference on Pervasive Computing Technologies for Healthcare 2012 (*Pervasive Health*) in San Diego, California, USA on May 21st, 2012

Workshop theme

In recent years, pervasive systems in healthcare have reached a high degree of maturity. However, the interpretation of large amounts of medical sensor data with regard to a person’s individual situation still remains a great challenge for the research community. Advanced medical data analysis is one important prerequisite for providing individualized health services in Pervasive Health or Ambient Assisted Living environments. Situation recognition, in turn, is a key factor for individualization and adaptivity.

The aim of this workshop is to attract the presentation of state-of-the-art research in the three areas of **situation recognition** (i.e., detection of falls, Activities of Daily Living, context-aware situation recognition), **medical data analysis** (vital signs data analysis, short- and long-term deviations in the state of health, decision support), and **behavior monitoring** (trend analysis for the detection of long-term deviations in a person’s behavior for detecting age-related diseases such as dementia) in Pervasive Health or Ambient Assisted Living environments.

This workshop will touch technological aspects such as data fusion in pervasive healthcare environments and decision support algorithms, as well as social implications and acceptance of these technologies. Furthermore, real-life applications of situation recognition in home monitoring and clinical environments, e.g., for individualized feedback systems, will be covered.

Topics

This workshop encourages submissions that consider, but are not limited to,

- technical concepts and/or algorithms for situation and context recognition
- technical concepts and/or algorithms for behavior monitoring
- concepts, applications, and/or prototypes for medical data interpretation
- data fusion in Pervasive Health environments

- approaches or applications of data mining for sensor data in Pervasive Health environments
- approaches for modeling context knowledge (user-/environment-oriented)

Publication

Accepted workshop papers will be published in the proceedings CD of the main conference. In addition, all papers will be published and indexed in the IEEE Xplore Digital Library.

Submission

Please refer to the Pervasive Health 2012 conference website to retrieve the author's kit (<http://pervasivehealth.org/2012/show/authors-kit>), including templates and detailed instructions. Please adhere strictly to these instructions and submit your paper as described.

The papers should be submitted via EasyChair. You will receive a confirmation email.

Submission at EasyChair: <http://www.easychair.org/conferences/?conf=pervasense2012>

Please do not hesitate to contact the chairs if you have any questions.

Important dates

Paper Submission Deadline: 1st March 2012

Notification of Acceptance: 26th March 2012

Camera Ready Deadline: 20th April 2012

Workshop Date: 21st May 2012

Workshop chairs

Dr.-Ing. Dipl.-Inform. Klaus-Hendrik Wolf, Peter L. Reichertz Institute for Medical Informatics, University of Braunschweig - Institute of Technology and Hannover Medical School, Germany, klaus-hendrik.wolf@plri.de

Dipl.-Inform. Med. Holger Storf, Fraunhofer-Institute for Experimental Software Engineering (IESE), Department Embedded Systems Development, Kaiserslautern, Germany, holger.storf@iese.fraunhofer.de

The PervaSense Workshop is co-organized by the International Medical Informatics Association (IMIA) working group "Wearable sensors in healthcare":

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