



Call for Papers

2nd international workshop for

“Situation recognition and medical data analysis in Pervasive Health environments” (PERVASENSE2010, www.pervasense.org)

to be held in conjunction with the 4th International Conference on Pervasive Computing Technologies for Healthcare 2010 (*Pervasive Health*) in Munich on March 22nd, 2010

Workshop theme

Pervasive systems in healthcare have reached a high degree of maturity from a technical point of view. However, the interpretation of large amounts of medical sensor data with regard to a person’s individual situation still remains a great challenge to 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 present top research in the areas of **situation recognition** (e.g. detection of falls, Activities of Daily Living (ADL, iADL), 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 persons behavior for detecting age-related diseases like dementia or Alzheimer’s) in Pervasive Health or Ambient Assisted Living environments.

This workshop touches both 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, are 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 2010 conference website to retrieve the author's kit (<http://www.pervasivehealth.org/authorskitieee.shtml>), including templates and detailed instructions. Please adhere strictly to these instructions and submit your paper to the ASSYST system using this link: <http://www.pervasivehealth.org/submission.shtml>.

You will receive a confirmation email. Please do not hesitate to contact the chairs if you have any questions.

Important dates

Paper Submission Deadline: 31 January 2010
Notification of Acceptance: 19 February 2010
Camera Ready Deadline: 26 February 2010
Workshop Date: 22 March 2010

Workshop chairs

Prof. Dr. med. Dr.-Ing. Michael Marschollek, Peter L. Reichertz Institute for Medical Informatics, University of Braunschweig - Institute of Technology and Hannover Medical School, Germany, michael.marschollek@plri.de

Dipl.-Inf. Med. Holger Storf, Fraunhofer-Institute for Experimental Software Engineering (IESE), Department Experience Management, Kaiserslautern, Germany, holger.storf@iese.fraunhofer.de

This workshop is organized by the GMDS project group "Ambient assisted living and health-enabling technologies".