



Per Health

First IEEE PerCom Workshop on Pervasive Healthcare

March 29, 2010
Mannheim, Germany

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CALL FOR PAPERS

Pervasive Healthcare constitutes one of the most promising and technically challenging application domains for pervasive computing. It involves many research areas, from wearable computing and ubiquitous connectivity to context-awareness, sensor data fusion, artificial intelligence, expert systems, medical analytics, databases and user-friendly interfaces. While significant technological progress has been achieved in the past few years, further work is needed to develop complete systems that can really improve the patient quality of life and reduce medical errors and costs. First of all, an efficient, reliable, and complete pervasive healthcare system must satisfy both medical and patient requirements in terms of accuracy, reliability, non-intrusiveness and user acceptance. To do this, a multidisciplinary approach is necessary starting from the integration of new wearable technologies in a single Body Area Network to the design and development of system architectures and middleware solutions able to support efficient and dependable services like continuous remote monitoring, patient tracking, and ambient assistance. The IEEE PerHealth workshop will provide a forum where researchers in the area of Pervasive Healthcare can discuss current results in the field and possible hints for future work. Original contributions are solicited related to all areas involved in the design of pervasive healthcare systems.

Areas of interest include, but are not limited to:

- Wearable and Implantable sensors for healthcare
- Pervasive communications in healthcare
- Service and device discovery
- Data fusion and context elaboration
- Privacy and security issues in healthcare
- Middleware for pervasive healthcare
- Energy Efficiency in health monitoring
- Artificial intelligence and expert systems
- User interface, usability and acceptability of pervasive healthcare systems
- Home monitoring and ambient assisted applications for healthcare
- Healthcare applications for clinicians
- Business Models of Pervasive Health Delivery
- Standards and frameworks

Paper submission must be limited to 6 pages including text, figures, references and appendices, organized following the IEEE 8.5x11 conference format, and formatted in accordance with the IEEE Computer Society author guidelines.

Submission will be managed through EDAS, and all accepted papers need a full registration to the conference. No-show of accepted papers at the workshop will result in those papers NOT being included in the IEEE Digital Library.

Extended versions of selected papers with special merit will be considered for a possible fast track publication on Pervasive and Mobile Computing Journal (Elsevier).

Important Dates

Paper submission

EXTENDED deadline: Oct. 25th, 2009

Acceptance Notification: Jan. 10th, 2010

Camera Ready: Jan. 29th, 2010

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<http://www2.computer.org/portal/web/cscps/formatting>

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