



Conference Theme

Within the last years a variety of new healthcare concepts for supporting and assisting users in technology-enhanced environments emerged. While smart healthcare systems can help to minimize hospital stays and in so doing enable patients an independent life in a domestic environment, the complexity such systems raises fundamental questions of behavior, communication and technology acceptance. Therefore, this workshop aims to bring together researchers from different disciplines to discuss the interrelation of medical, environmental, technical, communicative, psychological and social factors and their consequences for the design, use and acceptance of smart healthcare systems.

Conference Topics

Recommended topics include, but are not limited to, the following:

Methodology

- Usability of Healthcare Information Systems
- Usability of Mobile Computing in Healthcare
- User Experience Design
- Universal (or Disability) Access
- Empirical Methods (Qualitative and Quantitative)
- User and Cognitive Models
- Participatory Design
- Model-Based Design of E-Health Systems
- Tools for Design, Modeling, and Evaluation

Concepts and Applications

- Novel E-Health Concepts
- Software Infrastructures and Architectures for Implementing E-Health Applications
- Tools and Design Techniques for E-Health Systems
- Interaction Design
- Multidisciplinary or Interdisciplinary Design
- Trade-off between Technical, Medical, and User Requirements
- Aesthetic vs. Functional Design Aspects
- Emotional and Hedonic Design

Human-Computer Interaction

- Human Aspects of Future and Emerging Healthcare Technologies
- Human-Computer Interaction in Healthcare
- User-Centered or Human-Centered Design
- Emotion and Affective User Interface
- Adaptive and Tangible User Interfaces for E-Health Systems
- Universal (or Disability) Access

Social and Ethical Aspects

- Accessibility and Usability
- User Diversity
- Ethical and Normative Requirements
- Gender Specific Healthcare Design
- Technology Acceptance and Performance
- Social and Societal Implications of E-Health Applications
- Privacy, Security, and Trust in E-Health Applications
- Cultural Aspects of E-Health Systems

Technology and Systems

- Technologies and Devices for Smart Healthcare Systems
- Medical Devices and Sensors Infrastructures
- Collaborative and Distributed Healthcare Systems
- Handheld Devices and Mobile Computing in E-Health
- Ubiquitous and Pervasive Computing in Healthcare
- Ambient Assisted Living Environments

Submissions

Interested researchers are invited to submit a 2-page position paper formatted according to the OZCHI format to the workshop organizers (smarthealth2009@humtec.rwth-aachen.de) until **August 28, 2009**. The papers should focus on current research activities and/or interesting aspects of future work. All position papers will be peer-reviewed and evaluated based on their novelty, originality, and relevance to the workshop theme. Authors of accepted position papers will be notified until **September 25, 2009**. The one-day workshop will be held at OZCHI 2009, **November 23 - 27, 2009** in Melbourne, Australia.

Organizers



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