Wearable sensors in healthcare (Updated July 2013)

Website: http://www.wearable-sensors.org

Chair (2010 - 2013)
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Vice-Chair (2011 – 2014)
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Objectives

The WG aims to promote medical informatics research in the area of wearable sensor technology in healthcare by providing a joint comprehensive platform for information exchange and scientific collaboration. The group aims to attract experts from different areas of expertise, such as medical informatics, biomedical engineering, nursing and medicine.

The following areas of research will be addressed by the WG:

- sensor application and research areas in healthcare: diagnostics and therapeutics, in terms of primary, secondary and tertiary prevention
- methods for sensor data analysis, with a special focus on the analysis of multimodal data
- integration of sensor data resp. extracted information with health information systems and decision support systems to achieve individualization of diagnostics
- acceptance of wearable sensor technologies for healthcare, both by potential users/relatives and healthcare professionals.

Recent Activities

- Co-organization (Michael Marschollek) of the PervaSense2012 workshop (“Situation Recognition and Medical Data Analysis in Pervasive Health Environments”) on May 21st, 2012 in San Diego (held in conjunction with the IEEE Pervasive Health conference); 9 accepted full papers
- Frequent updates of the WG’s website (domain: wearable-sensors.org) and postings to the mailing list
- Current WG members: 20
- Current mailing list subscribers: 53
Published a CfP via WG and IMIA websites and WG mailing list for 'Enabling Technologies in Geriatric Medicine and Rehabilitation' in Methods and ZFGG joint journals special theme issues, several submissions from within the group

Published a paper based on MIE 2011, Medinfo 2010 Workshop and ICAMPAM 2011, Marschollek M, Schulze


Planned a workshop at medinfo2013 on 'Wearable sensors in cohort studies – technology, outcome parameters and common pitfalls '. However, this proposal was rejected by the PC

**Future Activities**

- Poster presentation at Medinfo 2013: Together with some members (Stephen Redmond, Nigel Lovell) of the group, will present the results of another MIE2011 workshop, a medinfo2010 workshop and an ICAMPAM 2011 workshop as a poster at Medinfo 2013 under the title "Sensor-based fall risk assessment - Dagger of the mind?"

- Business meeting at medinfo2013

- Selection of Chair and Co-Chair of the WG