Call for Papers pHealth 2015

Västerås, Sweden

2–4 June 2015

www.phealth2015.eu

pHealth 2015 opens a new chapter in the success story of the series of international conferences on wearable or implantable micro and nano technologies for personalized medicine. Starting in 2003 with personal health management systems, pHealth has evolved to a truly interdisciplinary event by covering technological and biomedical facilities, legal, ethical, social, and organizational requirements and impacts as well as necessary basic research for enabling the future proof care paradigms. Thereby, it increasingly combines medical services with public health, prevention, social and elderly care, wellness and personal fitness to establish participatory, predictive, personalized, preventive, and effective care settings. Therefore, it has attracted scientists, developers, and practitioners from various technologies, medical and health disciplines, legal affairs, politics, and administration from all over the world. It brought together health services vendor and provider institutions, payer organizations, governmental departments, academic institutions, professional bodies, but also patient and citizens representatives.

Smart mobile systems, eHealth and telemedicine have become important enablers for ubiquitous pervasive health as the next generation health services. Social media and gamification has added even further knowledge to pHealth both as a business domain and as a community.

OECD has defined four basic areas to be managed in the new care model: address the big data challenges; foster meaningful innovation; understand and address the potential new risks; and support concerted effort to un-silo communities for a virtual care future. The 12th pHealth conference will emphasize the interrelated aspects framing ubiquitous pervasive health: personalized health and virtual care, mobile technologies, big data and analytics, but also new potential risks for security and privacy as well as safety chances and challenges. The intended outcome is intelligent and autonomous health devices and services

The multilateral benefits of pHealth technologies for all stakeholder communities gives enormous potential, not only for medical quality improvement and industrial competitiveness, but also for managing health care cost. We welcome you to the city of Västerås for the pHealth 2015 conference to share experiences and results, and to open up for the future!

Following a long-term tradition, also pHealth 2015 is supported by the Working Groups "Electronic Health Records", "Personal Portable Devices" and "Security, Safety and Ethics" of the European Federation for Medical Informatics (EFMI).

Conference Contributions

The conference is composed of Conference Keynotes, Session Keynotes, Full Paper Presentations, and Poster Presentations. The conferences will be opened by a few Conference Keynotes held by globally leading experts covering the innovation and complexity of the topics the conference deals with. Invited Session Keynotes will introduce into the session topics and the Full Papers and Posters presented there.

Awards

The scientific program committee will bestow the pHealth 2015 Best Paper Award. The winner will be proclaimed at end of the conference.

Topics

The conference organizers call for innovative paper submissions describing knowledge beyond the state of the art. To support meaningful innovations and full integration of results to foster the new care paradigm, the interrelation of the addressed aspects to other aforementioned challenges of the care model should be tackled. Topics of interest in relation to the session structure include, but are not limited to:

Wearable and implantable devices and systems
- Sensors, actuators and patient diagnostic systems
- Signal processing and analysis
- Bioelectrical and bio-impedance sensing techniques
- Wireless body area network communication and computing
- Multi-sensor data fusion
- Sensor pattern recognition
- Therapeutic systems
- Smart textiles

Solutions for personalized care
- Personalized diagnostics
- Personalized therapy and rehabilitation
- Biomedicine and pHealth
- Biomechanics, Bioelectronics, Biophotonics and pHealth
- Personalized decision support systems
- Success stories and failure reports

Data and Knowledge Management and Methodologies
- Big Data and the Quantified Self
- Business Analytics and Visualization
- Virtual Physiological Human and Gamification

Interoperable ICT and Telemedicine
- Building large-scale interoperable electronic health systems
- Remote care and care integration with pHealth
- Personal Health Record systems
- Intelligent data processing and predictive algorithms in eHealth and pHealth
- Integration of mobile and home telecare with IHE

mHealth Applications
- Briging mHealth and pHealth applications
- Behavioral Health services
- Towards inclusive user interfaces
- mHealth beyond care: lifestyle management
- Medical Device Directive Compliance - Advantage or drawback

Security, Privacy, Safety and Ethics in pHealth
- Trust and trustworthiness as enablers for pHealth
- Security, privacy and ethics in pHealth
- Experience with existing labelling systems
- Future needs for regulation, certification and labelling

Publications

Submission to pHealth 2015 includes full papers only. Papers that tend to be better presented as posters will be recommended to the authors by the organizers.

Full Papers are scientific papers, future vision papers or review papers related to methodologies and/or applications. They should provide interrelations to the other ubiquitous pervasive health as-

pects. The paper structure includes: title, names, and affiliations (city, state, and country) of all authors, abstract (up to 200 words), 4-6 keywords. The body of the text shall include: introduction, methods, results, discussion, conclusions and references. The maximum length of a paper submission is **six** A4 camera-ready pages, and should strictly follow the formatting rules of the provided IOS Press template. All submitted papers will be subject to a peer-review process by three independent reviewers. Accepted full papers will be included in the pHealth 2015 Proceedings published at IOS Press in the Series "Studies in Health Technology and Informatics". The series is indexed at Elsevier's EMCare, Elsevier's SciVerse Scopus, Google Scholar / Google Books, MEDLINE, PubMed, Thomson Reuters' Book Citation Index, Thomson Reuters' Conference Proceedings Citation Index.The presentations are planned to be available on the conference website. Full Papers accepted for oral presentation are allocated 20 minutes including discussions.

Submitters of accepted Full Papers that tend to be better presented as Posters and are therefore not included as oral presentations in the pHealth 2015 Scientific Program will be invited to prepare and present a Poster. The camera-ready Full Paper will nevertheless be included in the IOS Proceedings.

Paper Submission

All papers formatted in accordance with the IOS Press template instructions have to be submitted through the conference online system at: **http://www.phealth2015.eu/submission**

Important Dates

Paper submission deadline: January 18st
Notification of acceptance: March 8th
Author registration: March 31st
Re-submission of camera-ready papers: April 5th
Conference Dates: June 2nd – 4th

Conference Venue

The pHealth 2015 Conference will be organized in the premise of Aros Congress Center, Västerås, Sweden (http://www.acc.se/en/).

Prof. Dr. Bernd Blobel

on behalf of the pHealth 2015 International Program Committee

Prof. Dr. Maria Lindén

on behalf of the pHealth 2015 Local Organizing Committee