

2<sup>nd</sup> International Conference on  
Pervasive Technologies Related to Assistive environments (PETRA 2009)  
9-13 June 2009, Corfu Island, Greece

**ANNOUNCEMENT OF**  
**1<sup>st</sup> Workshop on Privacy and Security in Pervasive  
e-Health and Assistive Environments (PSPAE 2009)**  
13 June 2009, Corfu Island, Greece



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**Workshop Theme**

Pervasive e-health and assistive environments involve new types of interaction among health/assistance providers and patients/elderly people, and introduce new ethical issues and threats for privacy. Such environments unobtrusively and transparently support their users while their implementations rely on an increased amount and accuracy of data generated and collected as well as on increased capabilities to process and analyze these data. The users frequently ignore the amount of their personal data being collected and processed or shared wirelessly and how much their privacy may be invaded.

Ensuring the security and privacy of sensitive information is a critical prerequisite to creating public trust for pervasive e-health and assistive environments which aim to improve patient and elderly care in a reliable and cost effective way. It is therefore, necessary for pervasive e-health and assistive environments to be implemented and used in compliance with data subjects' fundamental rights; moreover, the adoption of specific safeguards is required. In addition, since misuse of collected data is easily enabled, preventive measures are needed.

Privacy-Enhancing Technology (PET) concepts have been developed and applied while guidelines are found in the literature on how to deal with data so that the application of pervasive technology to become privacy-friendly. However, using privacy enabling and enhancing tools is not always easy. Pervasive computing environments are based on the use of wireless devices that have limited processing power, bandwidth, throughput, memory etc. These factors put a resource limitation on implementing resource demanding tools and protocols for privacy protection. Additionally, legal support for widespread use of PETs is missing and the introduction of additional legislation should be examined.

**Topics of Interest**

We are interested in original papers and case studies describing advances in all areas of security and privacy in e-health and assistive environments, including but not limited to:

- Privacy and security in CyberPhysical Systems (CPS)
- Human-centric CPS for assistive environments
- Policies and practices for access, authentication, authorization and auditing for health information systems in order to protect the privacy and security of electronic health information.
- Policies for sharing / exchange of patient's sensitive information among health / assistance providers for example, during an emergency.
- Legislation issues related to handling of protected health information in pervasive e-health environments.
- Secure data access in e-health environments
- Trust and privacy issues in e-health and assistive environments
- Sensor network security for e-health environments
- RFID, sensor networks and biometrics to enable security in e-health and assistive environments
- PKI to support e-health environments
- Encryption, cryptographic techniques to ensure privacy and security in e-health
- Case studies in respect to privacy and security in e-health environments
- Developing secure e-health and assistive infrastructures
- Interoperability of pervasive e-health and assistive environments with the information systems of health organizations (e.g. hospitals).
- Processing and exploitation of data from e-health and assistive environments for understanding better the needs of patients and designing better government and e-government services for them, but protecting privacy.

**Proceedings Information**

Accepted papers will be presented at the workshop and published in the Proceedings of the PETRA 2009 Conference. ACM will be the publisher of the proceedings of PETRA 2009 and the conference proceedings will be a volume in the ACM International Conference Proceedings Series in the ACM Digital Library. Interested authors should submit their contribution through e-mail to the workshop chairs (see [Call for Papers](#) ).

Based on the appropriateness of submissions, extended versions of selected papers from the Workshop will be invited to be considered for publication in a special issue of the [Security and Communication Networks, Wiley, InterScience](#) (see [special issue call for papers](#)).

**Important Dates**

**Paper Submission Deadline: March 1,  
2009**

**Paper Acceptance Notification: March 15,  
2009**

**Camera Ready Papers: March 31, 2009**

