The 3rd International Conference on
PErvasive Technologies Related to Assistive Environments
June 23-25, 2010

PETRA 2010
SAMOS, GREECE

URL: www.petrae.org
Email: petrae@uta.edu

Conference Chair
Fillia Makedon
University of Texas At Arlington, USA

Program Committee Chairs
Matt Bishop
University of California Davis, USA

Ilias Maglogiannis
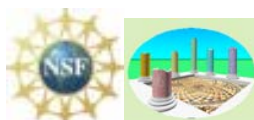*University of Central Greece, GREECE*

Sarantos Kapidakis
Ionian University, GREECE

Local Organizing Committee Chair
Ioannis Anagnostopoulos
University of the Aegean, GREECE

Sponsors

The 3rd International Conference on PErvasive Technologies Related to Assistive Environments will be held at the DORYSSA HOTEL in Samos, Greece.

DORYSSA HOTEL

Conference Theme
The PETRA Conference brings together different types of technology to address an important social and healthcare issue: as the world's population ages, there is growing need for technologies to assist with the in-home care of the elderly and people with Alzheimer's, Parkinson's and other disabilities or traumas. PETRA, which means "stone" in Greek, reflects the needs of the domestic environment, or "Oikos" as it was known in ancient Greece, but from a technological perspective. People's living environments are particularly important in an increasingly crowded and complex world in which inclusiveness and connectivity with the rest of the world is critical. PETRA addresses the fact that, as people grow older, they increasingly rely on technology to be able to live in their homes.

Call for Papers
Topics and areas of interest include, but are not limited to:

- Tools, infrastructures, architectures and techniques for designing, implementing and deploying pervasive applications in assistive environments
- Privacy, security and trust, especially risk analysis of sharing health data
- Wearable, ambient and home based health and wellness measurement and monitoring technologies, including requirements for probes for gathering this information in household settings
- Mobile and wireless technologies for healthcare information storage, transmission, processing, and feedback
- Sensor networks for pervasive care • Robotics and automation in assistive living systems
- Human Centered Computing and the Senior Citizen; Usability and HCI interfaces
- Signal and image processing for ambient intelligence and pervasive computing
- Reasoning systems and machine learning for assistive environments
- Social, ethical, legal and e-government issues in pervasive healthcare and aging
- Social impacts of the use of pervasive technologies on the user in pervasive assistive environments
- Nanotechnology for pervasive health environments
- Global Healthcare and the Citizen' Standards and interoperability
- Information Technology and Biomedicine and/or Telemedicine
- See more topics in http://www.petrae.org/callpaper.htm#topics

Important dates
- ❖ **Full Paper Submission Deadline:** November 15, 2009
- ❖ **Short Paper Submission Deadline:** February 15, 2010
- ❖ **Workshop Proposal Submissions Deadline:** December 15, 2009
- ❖ **Tutorial Proposal Submissions Deadline:** December 15, 2009
- ❖ **Poster Submissions Deadline:** February 25, 2010

  *All conference papers will be published in the ACM conference proceedings. Selected papers will be invited to special journal issues.

Call For Proposals
In addition to the main technical program, the conference will include Workshops. Submit proposals to the workshop chair:
Dimitrios Kosmopoulos dkosmo@iit.demokritos.gr