

*The 5th International Conference on*  
**Pervasive Technologies Related to Assistive Environments**

[WWW.PETRAE.ORG](http://WWW.PETRAE.ORG)



## PETRA 2012

Crete Island, Greece  
June 6-8, 2012



**Venue:** PETRA 2012 will be held at Aldemar Knossos Royal Hotel ([www.aldemarhotels.com](http://www.aldemarhotels.com)),  
Crete, Greece, June 6-8, 2012.

**Email:** [petrae@uta.edu](mailto:petrae@uta.edu)

### 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 wellness measurement and monitoring technologies
  - Service and socially assistive robots for rehabilitation
  - Sensor networks for pervasive care, reliability and availability
  - Robotics and automation in assistive living systems
  - Natural language processing systems for assistive environments.
  - 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, government policy & access
  - Global healthcare, citizen standards and interoperability
  - Human centered computing and the senior citizen
  - Telemedicine and biotechnology applications
  - Smart materials for rehabilitation
  - Machine learning and data mining tools for decision making
  - Devices and orthotics for physical therapy and rehabilitation
- See <http://www.petrae.org/callpaper.php>

### Important Dates:

**Full Paper Submission Deadline:** Feb. 05, 2012

**Short Paper Submission Deadline:** Feb. 05, 2012

**Poster Submission Deadline:** Feb. 20, 2012

**Paper Acceptance Notice:** Mar. 10, 2012

### Industrial Track:

This year's conference aims to reach out to industry by offering a special industrial track. In this industry-oriented session we invite companies to report on their research and product development that offer or support ambient or pervasive assistance. Be it in the field of health care, wellness, or industrial environments, we invite you to introduce your solution for enabling assistive environments.

### Call for Workshops

Workshop proposals must be sent via email to the Workshop Chair Dr. Dimitrios Kosmopoulos at [dkosmo@iit.demokritos.gr](mailto:dkosmo@iit.demokritos.gr), and must be received before December 15, 2011. Notifications to submitters will be sent out before December 31, 2011.

*\*All conference and workshop papers will be published in the ACM conference proceedings. Selected papers will be published in special issue of invited for publication in a special issue of the Personal and Ubiquitous Computing Journal (Springer) and International Journal Universal Access in the Information Society (UAIS).*

### Conference Chair

**Fillia Makedon**

*The University of Texas at  
Arlington, USA*

### Program Committee Chair

**Margrit Betke**

*Boston University, USA*

### Program Committee co- Chairs

**Manolis Maragoudakis**

*University of the Aegean,  
Greece*

**Ilias Maglogiannis**

*University of Central  
Greece, Greece*

### Industrial Track Chairs

**Christian Peter,**

**Gerald Bieber**

*Fraunhofer IGD, Germany*

### Local Arrangements

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