Dear Colleague,

We cordially welcome you to PETRA 2011 Conference, the 4th ACM International Conference on PErvasive Technologies Related to Assistive Environments, May 25-27 2011 in Crete, Greece.

**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 a growing interest in solutions for the in-home care of the elderly as well as for the care of 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 where the need for inclusiveness and connectivity with the rest of the world is key. PETRA addresses the fact that, as people grow older; they will increasingly rely on technology to be able to stay in their homes.

The conference attracted paper submissions from 18 countries, which underwent a thorough reviewing process; 37 of these were accepted as full papers, 7 as short papers and 6 as posters. The Petra Technical Program includes also the 5 following supported workshops

**PETRA WORKSHOPS**

**W1 ABRA: Affect and Behaviour Related Assistance in Support For the Elderly**

**W2 AlzAACFAM: Alzheimer's Disease - Computer-assisted Early Diagnosis and the Use of Augmentative Alternative Communication (AAC) for Families and Patients**

**W3 PSPAE: Privacy and Security in Pervasive e-Health and Assistive Environments Workshop**

**W4 RasEnv: Workshop on Robotics in Assistive Environments**

**W5 HappyAgeing: HAPPY AGEING Project Overview. Solutions for Independent Living and Technology Acceptance**
**FIRST DAY: May 25**

**Room 1**

09:00-10:30

**Conference Opening**

Fillia Makedon, Conference Chair

Margit Betke, Boston University (Program Committee Co-Chair)

Ilias Maglogiannis, University of Central Greece (Program Committee Co-Chair)

Grammati Pantziou, Technological Educational Institute of Athens (Program Committee Co-Chair)

**A1. Keynote Lecture**

Security challenges of the Personal Health Record

Sokratis K. Katsikas

General Secretary for Communications, Ministry of Infrastructures, Transport and Networks

Professor of the Dept. of Digital Systems of the University of Piraeus, Greece

10:30-10:50

**Coffee Break**

(PETRA NSF Doctoral Consortium Meeting)

10:50-12:50

**Session B: Usability and HCI Issues, Multimodal Interfaces**

Session Chair: Vassilis Athitsos

B.1. Setting the Table for the Blind, Mechmet Chiousemoglou, Helmut Jürgensen

B.2. Menu Controller: Making Existing Software More Accessible for People with Motor Impairments, Isaac Paquette, Christopher Kwan, Margrit Betke


B.4. Design Dimensions of Ambient Information Systems to Facilitate the Development of AAL Environments, Marcela Rodriguez, Juan Pablo Garcia, Angel Andrade

B.5. A Prototype Obstacle Navigation Device For The Blind, David Calder


12:50-14:00

**Lunch Break**

14:00-15:00

**Session C: Cognitive Systems and Pattern Analysis Tools for Assistive Environments**

Session Chair: Bieber Gerald

C.1. A Recommender System For Assistive Environments, Alexandros Papangelis, Georgios Galatas, Fillia Makedon

C.2. Probabilistic Search of Humans by Autonomous Mobile Robots, Syed Atif Mehdi, Karsten Berns

C.3. Can Cognitive and Functional Measures Explain Interactions Between Elderly People With Different Levels of Cognitive Decline and An Elderly Person, Unai Diaz, Aitziber Etxaniz, Maria Feli González, Cristina Buiza, Elena Urdaneta, Javier Yanguas

C.4. Recognition of Sleep Patterns Using a Bed Pressure Mat, Vangelis Metsis, Georgios Galatas, Alexandros Papangelis, Dimitrios Kosmopoulos

C.5. Community Detection in Collaborative Environments: A Comparative Study, Andreas Klerides, Costas Papanikolaou, Fillia Makedon

C.6. Best-Time Path Planning for a Robotic Arm, Kavita Krishnaswamy, Philip Macdonald

15:00-16:00

**Session D: Usability and HCI Issues, Multimodal Interfaces**

Session Chair: Vassilis Athitsos

D.1. A Modular, User Adaptable System to Support Rehabilitation Practices, Erik Grönvall, Gunnar Kramp

D.2. Setting the Table for the Blind, David Calder

D.3. Design Dimensions of Ambient Information Systems to Facilitate the Development of AAL Environments, Marcela Rodriguez, Juan Pablo Garcia, Angel Andrade


D.5. Recognizing Sleep Patterns Using a Bed Pressure Mat, Vangelis Metsis, Georgios Galatas, Alexandros Papangelis, Dimitrios Kosmopoulos


16:00-17:00

**Coffee Break**

(PETRA NSF Doctoral Consortium Meeting)
Session D: Tools, Infrastructures, Architectures and Techniques for Deploying Pervasive Applications in Assistive Environments I

D.1. Active RFID for Medical Aware Environments, Dimitris Agouridis, Muid Mufti, Adeel Mukhtar

D.2. AMICA, A Versatile Telemedical Platform for Self-management of COPD Patients, Ioannis Kouris, Kostas Giokas, Dimitris Koutsouris

D.3. Towards Global Aerobic Activity Monitoring, Attila Reiss, Didier Stricker

D.4. Assessment of Assistive Technologies Based On the PSA-BI Model, Stuart Moran, Lawrence Chidzambwa, Keiichi Nakata

D.5. A Configurable Telecare System, Claire Maternaghan, Kenneth Turner

W1: Workshop On Affect and Behaviour Related Assistance in Support For the Elderly:


W1.2. Augmentative Communication for Alzheimer’s Patients and the Use of Augmentative Communication (AAC) for Families, Rakel Berenbaum, Yehudit Lange, Leah Abramowitz

W1.3. Personalized Reminiscence Therapy for Patients With Alzheimer’s Disease Using A Computerized System, Vardit Sarne-flieischmann, Noam Tractinsky, Tzvi Dwolatzky, Inbal Rief


W1.5. The Mindstreams Computerized Assessment Battery for Cognitive Impairment and Dementia, Tzvi Dwolatzky

W2: Workshop on Alzheimer’s Disease - Computer-Assisted Early Diagnosis and the Use of Augmentative Alternative Communication (AAC) for Families and Patients:

W2.1. Kopal Application User-interface - Complete-Assisted Early Diagnosis

W2.2. Augmentative Communication for Alzheimer’s Patients and Families Using SAVION, Rakel Berenbaum, Yehudit Lange, Leah Abramowitz

W2.3. Enabling Risk Assessment and Analysis by Event Detection in Dementia Patients, Stefanos Xefteris, Aggelos Androulidakis, Maria Haritou, Andrey Baboshin, Yuri Glickman

W2.4. Personalized Reminiscence Therapy for Patients With Alzheimer’s Disease Using A Computerized System, Vardit Sarne-flieischmann, Noam Tractinsky, Tzvi Dwolatzky, Inbal Rief

W2.5. Savion: An Interactive Cognitive Enhancement Software for the Elderly, Emmanouil Papastefanakis, Andriani Kyriklaki, Simon Panagiotakis, Miliotis Theodoros, Gargeraki Anastasia

Session E: Tools, Infrastructures, Architectures and Techniques II

E.1. Designing A Multi-Purpose Capacitive Proximity Sensing Device, Andreas Braun, Pascal Hamisu

E.2. MCMC Bayesian Inference for Heart Sounds Screening in Assistive Environments, Manolis Maragoudakis, Euripides Loukis

E.3. Exploring Community Building With An Awareness Display, Dhaval Vyas, Anton Eliens, Wim Poelman

E.4. Use of RSSI and Time-of-Flight Wireless Signal Characteristics for Location Recognition, David van Wijk, Albert van den Poel, Elwin van Lierop

E.5. Quality of Life Information Services Based On Participatory Environmental Sensing, Kostas Karatzas, Victor Epitropou, Anastassios Bassoukos

Workshop: Technology for medical Assistive Environments

Workshop Chair: George Alexandrakis

Workshop: Technology for medical Assistive Environments

Workshop Chair: Peter Chinman, Deepak Goyal, Ronald Koops

Welcome cocktail party

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<table>
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<tr>
<th>Session</th>
<th>Description</th>
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| Session F | **Signal and Image Processing for Ambient Intelligence and Pervasive Computing**  
**Session Chair:** Leonidas Fegaras |
| F.1. | Audiovisual Speech Recognition in Noisy Visual Environments  
Georgios Galatas, Gerasimos Potamianos, Alexandros Papangelis, Fillia Makedon |
| F.2. | Comparing Gesture Recognition Accuracy Using Color and Depth Information  
Paul Doliotis, Alexandra Stefan, Chris McMurrrough, David Eckhard, Vassilis Athitsos |
| F.3. | Experiments With Computer Vision Methods for Hand Detection  
Zhong Zhang, Rommel Alonzo, Vassilis Athitsos |
| F.4. | Swallow Sound Analysis for Automated Ingestion Detection  
William Walker, Dinesh Bhatia |
| F.5. | Watering The Flowers: Virtual Haptic Environments for Training of Forearm Rotation In Persons With Central Nervous Deficits  
Tom De Weyer, Karin Koninx, Sofie Notelaers, Richard Geers, Peter Feys |
| Session G | **Pervasive Systems for the Aging Society**  
**Session Chair:** Eric Becker, Dimitrios Kosmopoulos |
| G.1. | A TV Platform to Improve Older People’s Quality of Life: Lessons Learned From the Evaluation of The VITAL Project with Spanish Elderly Users  
Unai Diaz, Aitziber Etxaniz, Elena Urdaneta, Gorka Epelde, Xabier Valencia |
| G.2. | Abnormal Behaviours Identification for An Elder’s Life Activities using Dissimilarity Measurements  
Sawsan Mahmoud, Ahmad Lotfi, Caroline Langensiepen |
| G.3. | Elderly Daily Activity Habits or Lifestyle in Their Natural Environments  
Marie Chan, Daniel Estève, Eric Campo |
| G.4. | An Adaptable Card Game for Older Users  
Michalis Foukarakis, Asterios Leonidis, Ilia Adami, Margherita Antona, Constantine Stephanidis |
| G.5. | Usability Assessment of a Pervasive System to Assist Caregivers in Dealing with Repetitive Behaviors of Patients with Dementia, Rene Weers, Carla Komar, Sofie Notelaers, Richard Geers, Peter Feys |

**Session H: Plenary - Invited Lectures**  
**Session Chair:** Margit Betke, Boston University USA (Program Committee Co-Chair)  
**Lunch Break: 12:30-14:00**
SECOND DAY: MAY 26

Session I: Internet and Networking Technologies for Pervasive Health

Room 2:

14:00-16:00


I.5. Usability of Caching Approaches in Pervasive Ad-Hoc Networks, Andre Peters, Andreas Heuer

I.6. ER Designer Toolkit: A Graphical Event Definition Authoring Tool, Pythagoras Karampiperis, Giannis Mouchakis, George Paliouras, Vangelis Karkaletsis

W3: Workshop on Privacy and Security in Pervasive Environments

Room 1:

16:00-17:00

Poster Session

Combined with Coffee Break

20:30: Gala Dinner

DAY TWO — MAY 26

Room 2:

11:00:

W3.1. A Privacy-Aware Localization Service for Healthcare Environments, Thomas Scheffler, Sven Schindler, Marcus Wenzel

W3.2. Access Controls for Privacy Protection in Pervasive Environments, Thomas Schiffer, Simon Schmidt, Marcus Wenzel

W3.3. A Privacy-Aware Localisation Service for Healthcare Environments, Thomas Schiffer, Simon Schmidt, Marcus Wenzel

W3.4. Tutors of Medical Devices: Applications, and Lessons in Perspective

W3.5. Proactive Monitoring in Wireless Medical Monitoring Healthcare, Michael Clifford, Max Bishop

W3.6. Designing Toolkit a Graphical Even Definition Authoring Tool, Anke Peters, Andreas Heuer

W3.7. Usability of Caching Approaches in Pervasive Ad-Hoc Networks, Andre Peters, Andreas Heuer


W3.10. Teamwork: Privacy, Security, and Trust in Pervasive Environments, Michael Clifford, Georg Heidt

Room 1:

16:00-17:00

Poster Session

Combined with Coffee Break

11:00:

W3.1. A Privacy-Aware Localization Service for Healthcare Environments, Thomas Scheffler, Sven Schindler, Marcus Wenzel

W3.2. Access Controls for Privacy Protection in Pervasive Environments, Hauke Vagts, Erik Krempel, Yvonne Fischer

W3.3. Security Aspects of Cyber-Physical Device Safety in Assistive Environments, Tassos Dimitriou, Petros Tomasopoulos, Alexandros Karagiannis

W3.4. Energy Consumption Measurement and Analysis in Wireless Sensor Networks, Alexandros Karagiannis, Dimosthenes Vouyioukas, Philippos Constantinou

W3.5. Trust of Medical Devices, Applications, and Users in Pervasive Environments, Michael Clifford, Matt Bishop

W3.6. Protecting Anonymity in Wireless Medical Monitoring Environments, Grammati Pantziou, Petros Tomasopoulos, Alexandros Karagiannis

W3.7. Teamwork: Privacy, Security, and Trust in Pervasive Environments, Michael Clifford, Georg Heidt


W3.10. Teamwork: Privacy, Security, and Trust in Pervasive Environments, Michael Clifford, Georg Heidt

W3.11. Conexx’s Wearable Deliver of Information in Assistive Environments, Tassos Dimitriou, Petros Tomasopoulos, Alexandros Karagiannis
### Session J: Data Modeling and Information Management for Pervasive Assistive Environments

**Session Chair:** Petros Belsis

- **09:00 - 11:00**
  - **J.1.** E-EPR: A Cloud-Based Architecture of An Electronic Emergency Patient Record, Mikaela Poulymenopoulou, Flora Malatheniou, George Vassilacopoulos
  - **J.2.** Model-Based Search in Large Time Series Databases, Alexios Kotsifakos, Vassilis Athitsos, Panagiotis Papapetrou, Jaakko Hollmen, Dimitrios Gunopulos
  - **J.3.** Privacy-Enhanced Management of Ubiquitous Health Monitoring Data, George Drosatos, Pavlos Efraimidis
  - **J.4.** Hefestos: a Model for Ubiquitous Accessibility Support, João Tavares, Jorge Barbosa, Cristiano Costa, Adenauer Yamin, Rodrigo Real
  - **J.5.** Topological Gabor Descriptors: Exploring a Filter Bank Structure for Feature Matching, Vishnukumar Galigekere, Gutemberg Guerra-filho
  - **J.6.** Distance Measure for Querying Arrangements of Temporal Intervals, Orestis Kostakis, Panagiotis Papapetrou, Jaakko Hollmen

### Workshop on Robotics in Assistive Environments

**Workshop Chair:** Gian-Luca Mariottini

- **09:00 - 11:00**
  - **W4.1.** A Survey and Comparison of Commercial and Open-Source Robot Operating System, Aaron Staronowicz, Gian-luca Mariottini
  - **W4.2.** Enhanced Therapeutic Interactivity Using Social Robot Zeno, Isura Ranatunga, Jartuwat Rajruangrabin, Dan Popa, Fillia Makedon
  - **W4.3.** eyeDog: An Assistive Guide Robot for the Visually Impaired, Georgios Galatas, Christopher Mcmurrough, Gian-luca Mariottini, Fillia Makedon
  - **W4.4.** Neptune: Assistive Robotic System for Children with Motor Impairments, Pavan Kanajar, Isura Ranatunga, Jartuwat Rajruangrabin, Dan Popa, Fillia Makedon
  - **W4.5.** Speech-to-Speech Translation in an Assisted Living Lab, Dimitra Anastasiou

### Poster Session

**Session Chair:** Grammati Pantziou, Technological Educational Institute of Athens (Program Committee Co-Chair)

- **11:30 - 13:00**
  - **K1.** Ambient Real-Time Reliable Sensor Middleware for Emergency Response Applications, Vana Kalogeraki, Department of Informatics Athens University of Economics and Business, Greece
  - **K2.** Effects of Normal Aging and Alzheimer's Disease on the Causal Interaction among Independent EEG Components, Michalis Zervakis, Technical University of Crete, Greece

### Lunch Break

11:30 - 13:00
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00-15:20</td>
<td>HAPPY AGEING Project Overview: Solutions for Independent Living and Technology Acceptance</td>
<td>Zsuzsa Szeman</td>
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<td>14:00-15:20</td>
<td>The HAPPY AGEING Technical Development: Presentation of the System</td>
<td>Virginia Garcia</td>
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<td>14:00-15:20</td>
<td>The Perspective of Older People on Technology and HAPPY AGEING system</td>
<td>Zsuzsa Szeman</td>
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<td>15:20-16:00</td>
<td>PETRA NSF Doctoral Consortium Meeting – Conclusions</td>
<td>Leonidas Fegaras (Mentor)</td>
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<td>16:00</td>
<td>Conference Closing</td>
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### Steering Committee
- Fillia Makedon - University of Texas at Arlington, USA
- Ilias Maglogiannis - University of Central Greece, Greece
- Grammati Pantziou - Technological Educational Institution of Athens, Greece
- Vangelis Karkaletsis - National Centre for Scientific Research "Demokritos", Greece

### Conference Chair
- Fillia Makedon - University of Texas at Arlington, USA

### Program Committee
- Margrit Betke (Chair) - Boston University, USA
- Ilias Maglogiannis (Co-Chair) - University of Central Greece, Greece
- Grammati Pantziou (Co-Chair) - TEI of Athens (Department of Informatics), Greece
- Hamid Aghajan - Stanford University, USA
- Margherita Antona - Foundation for Research and Technology, Greece
- Vassilis Athitsos - University of Texas at Arlington, USA
- Dinesh K. Bhatia - The University of Texas at Dallas, USA
- Gerald Bieber - Fraunhofer Institute for Computer Graphics, Rostock, Germany
- Nikolaos Bourbakis - Wright State University, USA
- Guanling Chen - University of Massachusetts at Lowell, USA
- Domenico Cotroneo - University of Napoli Federico II, Italy
- Christos Douligeris - University of Piraeus, Greece
- Olga Dreeben - University of North Texas Health Science Center, USA
- Pier Luigi Emiliani - Institute of Applied Physics "Nello Carrara" (IFAC), Italy
- Krzysztof Gajos - Harvard University, USA
- Dimitris Grammenos - Foundation for Research and Technology-Hellas (FORTH)
- Heng Huang - University of Texas at Arlington, USA
- Maura Daly Iversen - Northeastern University, USA
- Roozbeh Jafari - The University of Texas at Dallas, USA
- Michelle Johnson - Medical College of Wisconsin, USA
- Sarantos Kapidakis - Ionian University, Greece
- Mathias Kolsch - Naval Postgraduate School, Monterey, CA, USA
- George Kontaxakis - Technical University of Madrid, Spain
- Yiannis Laouris - Chair of the Cyprus Neuroscience & Technology Institute
- Charles Owen - Michigan State University, USA
- Christian Peter - Fraunhofer Institute for Computer Graphics, Rostock, Germany
- Dan Popa - The University of Texas at Arlington
- Balakrishnan Prabhakaran - University of Texas at Dallas, USA
- Majid Sarrafzadeh - UCLA, USA
- Andreas Savvides - Yale University, USA
- Li Shen - Indiana University, USA
- Hartmut Strese - VDI/VDE-IT, Germany
- Evimaria Terzi - Boston University, USA
- Yuhang Wang - Southern Methodist University, Dallas, USA
- Kai Yu - NEC Laboratories America, Inc.
**Organizing Committee Chairs**

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<tr>
<td>Fragopoulou Paraskevi (Co-Chair)</td>
<td>TEI of Crete, Greece</td>
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<td>Manolis Maragoudakis (Co-Chair)</td>
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<td>Alexandros Papangelis</td>
<td>University of Texas at Arlington, USA</td>
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**Workshop Chair**

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<tr>
<td>Dimitrios Kosmopoulos</td>
<td>National Centre for Scientific Research &quot;Demokritos&quot;, Greece</td>
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**Conference Web Support and e-Proceedings**

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<td>Rong Zhang</td>
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**NSF Doctoral Consortium Faculty**

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<td>Leonidas Fegaras (Chair)</td>
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<td>Monica Basco</td>
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<td>Angie Boisselle</td>
<td>Cook Children's Medical Center, USA</td>
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