

The 7th ACM International Conference on PErvasive
Technologies Related to Assistive Environments

PETRA 2014

Conference Program

May 27-30, 2014
Rhodes, Greece

Organized by

The University of Texas at Arlington, Arlington, Texas, USA

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Conference Proceedings

ACM - Association for Computing Machinery



Dear Colleague,

We cordially welcome you to PETRA 2014 Conference, the 7th ACM International Conference on **PE**rvasive**T**echnologies **R**elated to **A**ssistive **E**nvironments, May27-30 2014, on the island of Rhodes, Greece.

Conference Theme

The PETRA Conference is a highly interdisciplinary conference that focuses on computational and engineering approaches to improve the quality of life and enhance human performance in a wide range of settings, in the workplace, at home, in public spaces, urban environments, and other. Outcomes of this conference have a broad impact in application areas that include, manufacturing, transportation, healthcare, energy systems, security and safety, robotics, biomedicine, environment and conservation, and many others.

Petra brings together very different types of technologies to also address important social and healthcare issues for sensitive populations, such as the elderly, persons suffering from chronic conditions such as Alzheimer's, Parkinson's, Cerebral Palsy, and other disabilities or traumas.

PETRA (which means "stone" in Greek) addresses important human living needs. From a technological perspective, PETRA motivates and inspires new scientific thrusts, innovations and discoveries to improve living environments, a particularly important issue, in an increasingly crowded and complex world where the need for inclusiveness and connectivity with the rest of the world is key. For the elderly in particular, PETRA addresses the fact that, as people grow older; they will increasingly rely on technology to be able to prolong staying in their homes and enjoy an independent life.

The conference attracted paper submissions from 16 countries, which underwent a thorough reviewing process; 37 of these were accepted as full papers, 11 as short papers and 9 as posters. The Petra Technical Program includes also the 5 following supported workshops.

PETRA WORKSHOPS

W1 VRTHR: Workshop on Virtual Reality and Technologies for Health and Rehabilitation: Promises, Proofs, and Preferences

W2 STHENOS: Workshop on Affective Computing for Biological Activity Recognition in Assistive Environments

W3 RasEnv: Workshop on Robotics in Assistive Environments

W4 SafeOperation: Workshop on Assistive Technologies For Safe Operation Of Complex Technological Systems Including Industrial Sites, Shipping, Off-Shore Platforms And Mining Activities

W5 Di-Sensa: Workshop on Distributed Sensor Systems for Assistive Environments

FIRST DAY: May 27

	Room 1	Room 2
10:00-10:30	Conference Opening Fillia Makedon, Conference Chair Ilias Maglogiannis, University of Piraeus, Department of Digital Systems, Greece (Program Committee Co-Chair)	
10:30-11:30	A. Keynote Lecture - Nikolaos Mavridis NCSR Demokritos Robots, Language, Space, and Interaction Session Chair: Ilias Maglogiannis	
11:30-13:10	<p><i>Session B: Reasoning systems and machine learning for assistive environments</i> Session Chair: Vangelis Metsis</p> <p>B1 - Human Activity Recognition in Smart Homes Based on Passive RFID Localization, Kevin Bouchard, Jean-Sébastien Bilodeau, Dany Fortin-Simard, Sébastien Gaboury, Bruno Bouchard, Abdenour Bouzouane</p> <p>B2 - Learning a classifier for Cardiovascular Events Using Privileged Information, Georgios Giannoulis, Stanislav Yotov, Ioannis Kakadiaris</p> <p>B3 - Intelligent Decision Making for Risk Screening, Panagiotis Moutafis, Ioannis Kakadiaris</p> <p>B4 - Classifying Electrocardiograms using time warping methods, Nikolaos Tselas, Panagiotis Papapetrou</p> <p>B5 - A Supervised Learning Approach for Fast Object Recognition from RGB-D Data, David Paulk, Vangelis Metsis, Christopher McMurrough, Fillia Makedon</p>	<p><i>Session C: Wearable Systems and Monitoring Devices</i> Session Chair: Gerald Bieber</p> <p>C1 - Is photoplethysmography-derived pulse shape useful for fall detection?, Jason Leake, Nigel Harris, Edmund Keogh, Christopher Eccleston</p> <p>C2 - ADVENT: A System Architecture for Advanced Monitoring of Elders with Chronic Conditions, Theodor Panagiotakopoulos, Christos Antonopoulos, George Koutalieris, Panagiotis Kalantzis, Costas Theodoropoulos, George Koumanakos, Achilles Kameas, Nikolaos Voros, Stavros Koubias</p> <p>C3 - Battery Optimization in Remote Health Monitoring Systems to Enhance User Adherence, Nabil Alshurafa, Wenyao Xu, Jason J. Liu, Mohammad Pourhomayoun, Majid Sarrafzadeh, Suneil Nyamathi, JoAnn Eastwood</p> <p>C4 - WI-PATCH: Stick-On Wireless Sensor Platform for Continuous Monitoring of Human Physiology, Varsha Evanglene Sudula, Igor paprotny</p> <p>C5 - Towards a Low Cost Open Architecture Wearable Sensor Network for Health Care Applications, Panayotis M. Papazoglou, Theoni I. Laskari, George K. Fournalas</p>
13:10-14:30	Lunch Break	

FIRST DAY: May 27

	Room 1	Room 2
14:30-16:10	<p><i>Session D: Ambient Assisted Living and Smart Homes</i> Session Chair: Panagiotis Papapetrou</p> <p>D1 - A new system for assistance and guidance in smart homes based on electrical devices identification, Corinne Belley, Sebastien Gaboury, Bruno Bouchard, Abdenour Bouzouane</p> <p>D2 - Gesture Recognition in Smart Home Using Passive RFID Technology, Kevin Bouchard, Abdenour Bouzouane, Bruno Bouchard</p> <p>D3 - An Evaluation of RGB-D Skeleton Tracking for Use in Large Vocabulary Complex Gesture Recognition, Christopher Conly, Vassilis Athitsos</p> <p>D4 - Live Evaluation within Ambient Assisted Living Scenarios, Carlos Pereira, António Teixeira, Miguel Oliveira e Silva</p> <p>D5 - Low Sampling Rate for Physical Activity Recognition, Gerald Bieber, Thomas Kirste, Michael Gaede</p>	<p><i>Session W1: Workshop on on Virtual Reality and Technologies for Health and Rehabilitation: Promises, Proofs, and Preferences (VRTHR)</i> Workshop Chairs: Maureen J. Simmonds, Wendy Powell, Vaughan Powell</p> <p>W11 - Virtual Reality for Gait Rehabilitation - Promises, Proofs and Preferences, Wendy Powell, Vaughan Powell, Maureen Simmonds</p> <p>W12 - Considerations for Virtual Environments for Upper Limb Rehabilitation Tasks, Vaughan Powell, Wendy Powell, Maureen Simmonds</p> <p>W13 - Innovative Medical Applications and Beyond of 3D Techniques in a Responsive Virtual Reality Lab: Experience Report, Miao Song, Peter Grogano, Serguei Mokhov, Wang Song, Maureen Simmonds</p>
16:10-17:30	<p>Poster Session Combined with Welcome cocktail party</p>	

SECOND DAY: May 28

	Room 1	Room 2
09:00-10:40	<p><u>Session E: Data Modeling and Information Management for Pervasive Assistive Environments</u></p> <p>Session Chair: Venet Osmani</p> <p>E1 - Tell me your app and I will tell your mood: Correlation of Apps usage to Bipolar Disorder State, Venet Osmani, Jorge Alvarez-Lozano, Oscar Mayora</p> <p>E2 - A Goal-Oriented Requirements Engineering Approach for the Ambient Assisted Living Domain, Andrea Claudi, Davide Calvaresi, Aldo Dragoni, Daniele Accattoli, Paolo Sernani, Eric Yu</p> <p>E3 - Data management and user centered rehabilitation in Rehab@Home project, Elisa Ferrara, Sonia Nardotto, Serena Ponte, Silvana Dellepiane</p> <p>E4 - Mining Candidates for Adverse Drug Interactions in Electronic Patient Records, Lars Asker, Henrik Boström, Isak Karlsson, Panagiotis Papapetrou, Jing Zhao</p> <p>E5 - Cognitive and Context-Aware Application, Sohail Rafiqi, Suku Nair, Ephrem Fernandez</p>	<p><u>Session F: Signal and Image Processing for Ambient Intelligence and Pervasive Computing</u></p> <p>Session Chair: Jan Dekelver</p> <p>F1 - Recognition of Structural Signs in the Human Iris using Data Mining Techniques, Manolis Maragoudakis</p> <p>F2 - A Comparative Study on 3-D Stereo Reconstruction from Endoscopic Images, Mostafa Parchami, Gustavo Puerto-Souza, Jeffrey Cadeddu, Gian-Luca Mariottini</p> <p>F3 - Hand Detection on Sign Language Videos, Zhong Zhang, Christopher Conly, Vassilis Athitsos</p> <p>F4 - A Markerless Tiling Method for Tracking Daily Lung Tumor Motion on Imperfectly Matched Images, Timothy Rozario, Sergey Bereg, Weihua Mao</p> <p>F5 - Evaluation of Time and Frequency Domain Features for Seizure Detection from Combined EEG and ECG signals, Iosif Mporas, Vasiliki Tsirka, Evangelia Zacharaki, Michalis Koutroumanidis, Vasileios Megalooikonomou</p>
10:40-11:10	Coffee Break (PETRA NSF Doctoral Consortium Meeting)	
11:10-12:10	<p><u>Session G - Plenary Keynote Lecture</u></p> <p>Maureen Simmonds, Professor & Research Chair, UT San Antonio Health Science Centre</p> <p>Virtual Reality in Pain, Mind, and Movement Rehabilitation: Pervasive and Persuasive?</p> <p>Session Chair: Dimtrios Zikos</p>	

12:10-13:10	<p><u>Session W2: Workshop on Affective Computing for Biological Activity Recognition in Assistive Environments (STHENOS)</u></p> <p>Workshop chairs: Ilias Maglogiannis, Panagiotis Bamidis, Kostas Karpouzis</p> <p>W21 - Human Centered Computing for the Development of Assistive Environments: The STHENOS project, Ilias Maglogiannis</p> <p>W22 - Human Movement Detection using Attitude and Heading Reference System, George Fourlas, Ilias Maglogiannis</p> <p>W23 - Multicamera Fusion for online Analysis of structured Processes, Dimitrios Kosmopoulos, Ilias Maglogiannis</p> <p>W24 - Employing Affection in Elderly Healthcare Serious Games Interventions, Charis Styliadis, Evdokimos Konstantinidis, Antonis Billis, Panagiotis Bamidis</p>	<p><u>Session W3: Workshop on Robotics in Assistive Environments (RasEnv)</u></p> <p>Workshop chairs: Gian-Luca Mariottini, Dan Popa</p> <p>W31 - Safety Challenges in using AR.Drone to collaborate with humans in indoor environments, Alexandros Lioulemes, Georgios Galatas, Vangelis Metsis, Gian Luca Mariottini, Fillia Makedon</p> <p>W32 - Indoor Quadrotor State Estimation using Visual Markers, Ghassan Atmeh, Isura Ranatunga, Dan Popa</p> <p>W33 - Service Robotics for the Home: A State of the Art Review, Kris Doelling, Jeongsik Shin, Dan Popa</p>
13:10-14:30	Lunch Break	
15:00	Excursion (Rhodes Aquarium)	

THIRD DAY: May 29

	Room 1	Room 2
9:00-10:40	<p><i>Session H: Usability and HCI issues</i> Session Chair: Dimitrios Spiliotopoulos</p> <p>H1 - A Marker Detection Method using Hysteresis Thresholding for User Posture Tracking: a Head Tracking System, Ahmet Cengizhan Dirican</p> <p>H2 - An Audiovisual Patient Identification System for Rehabilitation, Konstantinos Tsiakas, Dimitrios Zikos, Fillia Makedon</p> <p>H3 - Context-aware Assistive Systems at the Workplace. Analyzing the Effects of Projection and Gamification, Oliver Korn, Markus Funk, Stephan Abele, Thomas Hörz, Albrecht Schmidt</p> <p>H4 - Target Reverse Crossing - A Selection Method for Camera-Based Mouse-replacement Systems, Wenxin Feng, Ming Chen, Margrit Betke</p> <p>H5 - Development of a Smart Insole Tracking System for Physical Therapy and Athletics, Timothy Roden, Rob LeGrand, Raul Fernandez, Jacqueline Brown, James Deaton, Johnny Ross Jr.</p>	<p><i>Session W4: Workshop on Assistive Technologies For Safe Operation Of Complex Technological Systems Including Industrial Sites, Shipping, Off-Shore Platforms And Mining Activities (SafeOperation)</i></p> <p>Workshop chair: Zoe Nivolianitou</p> <p>W41 - Multi-sensor Target Detection and Tracking system for Sea Ground Borders Surveillance, Panagiotis Agrafiotis, Anastasios Doulamis, Nikolaos Doulamis, Andreas Georgopoulos</p> <p>W42 - Investigation of coinciding shipping accident factors with the use of partitional clustering methods, Eva Lema, Dimitris Papaioannou, George P. Vlachos</p> <p>W43 - Monitoring and evaluating failure-sensitive strategies in air traffic control simulator training, Stathis Malakis, Tom Kontogiannis, Panos Psaros</p> <p>W44 - Bayesian network to Predict Environmental Risk of a Possible Ship Accident, Ioanna Koromila, Zoe Nivolianitou, Theodoros Giannakopoulos</p> <p>W45 - AMINESS: A Platform for Environmentally Safe Shipping, Theodoros Giannakopoulos, Ioannis A. Vetsikas, Ioanna Koromila, Vangelis Karkaletsis, Stavros Perantonis</p>
10:40-11:10	Coffee Break	
11:10-12:10	<p><i>Session I. Plenary Keynote Lecture</i> Mark Hawley Professor University of Sheffield, UK Speech technology in assistive environments Session Chair: Vassilis Athitsos</p>	

12:10-13:10	<p><i>Session J: Robotic Devices and Multimodal Interfaces</i> Session Chair: Dan Popa</p> <p>J1 - Implementation of advanced manipulation tasks on humanoids through kinesthetic teaching, Sven Cremer, Matt Middleton, Dan Popa</p> <p>J2 - Multiple-Robot Monitoring System Based on a Service-Oriented DBMS, Yutaka Deguchi, Daisuke Takayama, Shigeru Takano, Vasile-Marian Scuturici, Jean-Marc Petit, Einoshin Suzuki</p> <p>J3 - Quantitative Evaluation of the Kinect Skeleton Tracker for Physical Rehabilitation Exercises, Shawn Gieser, Vangelis Metsis, Fillia Makedon</p>	<u>No Session</u>
13:10-14:30	Lunch Break	
	Room 1	Room 2
14:30-16:00	<p><i>Session K: Tools, Infrastructures, Architectures and Techniques for Deploying Pervasive Applications in Assistive Environments I</i> Session Chair: Helen Karatza</p> <p>K1 - Mobile Bandwidth Prediction in the Context of Emergency Medical Service, Stefanie Judith Opitz, Nicole Todtenberg, Hartmut König</p> <p>K2 - Sign Language Recognition using Dynamic Time Warping and Hand Shape Distance Based on Histogram of Oriented Gradient Features, Pat Jangyodsuk, Christopher Conly, Vassilis Athitsos</p> <p>K3 - Mobility Behavior Assessment Using a Smart-Monitoring System to Care for the Elderly in a Hospital Environment, Marie Chan, Eric Campo, Walid Bourennane, Fehd Bettahar, Yoann Charlon</p> <p>K4 - Java Framework for Dialysis Monitoring using a Distributed Network Architecture, Hiren Sangani, Andreas Fink, Christian Peter</p>	<p><i>Session L: Healthcare and Industrial Innovations in Assistive Technologies</i> Session Chair: Oliver Korn</p> <p>L1 - Effects of Gamification on the Performance in the Context of Industrial Workplaces, Oliver Korn</p> <p>L2 - Evaluation of Classification Methods for the Prediction of Hospital Length of Stay using Medicare Claims data, Dimitrios Zikos, Konstantinos Tsiakas, Fadiyah Qudah, Vassilis Athitsos, Fillia Makedon</p> <p>L3 - Improving Healthcare Cost Transparency Through Mobile Application Development, David Allen, Ovidiu Daescu</p> <p>L4 - Computer Games to Decrease Pain and Improve Mood and Movement, Maureen Simmonds, Dimitrios Zikos</p> <p>L5 – Demo: Smart Insole Tracking System, Johnny Ross Jr.</p>
16:00-16:30	Coffee Break (PETRA NSF Doctoral Consortium Meeting)	
22:00	After Dinner Party	

FOURTH DAY: May 30

	Room 1	Room 2
10:00-11:00	<p><i>Session M. Plenary Keynote Lecture</i> Matt Bishop Professor University of California at Davis, USA Testing the Resistance of Pervasive Technologies to Attack Session Chair: <i>Fillia Makedon</i></p>	
11:00-12:40	<p><i>Session N: Tools, Infrastructures, Architectures and Techniques for Deploying Pervasive Applications in Assistive Environments I</i> Session Chair: <i>Dimitrios Kosmopoulos</i></p> <p>N1 - Co-creation for Empowerment: V-pad and a New Curriculum for Engineers, <i>Inge Vervoort, Jan Dekelver, Jo Daems, Jan Engelen, Mohammed Mohammed</i></p> <p>N2 - eFriend: an Ethical Framework for Intelligent Environment Development, <i>Simon Jones, Sukhvinder Hara, Juan Augusto</i></p> <p>N3 - Interdisciplinary Partnerships between Rehabilitation Therapists and Computer Scientists: A Proposed Model, <i>Angie Boisselle, Maureen Simmonds</i></p> <p>N4 - Text Summarization as an Assistive Technology, <i>Fahmida Hamid, Paul Tarau</i></p>	<p><i>Session W5: Workshop on Distributed Sensor Systems for Assistive Environments (Di-Sensa)</i> Workshop chair: <i>Vana Kalogeraki</i></p> <p>W51 - Sink Controlled Reliable Transport for Disaster Recovery, <i>Charilaos Stais, George Xylomenos, Giannis F. Marias</i></p> <p>W52 - Towards Real-Time Emergency Response using Crowdsourcing, <i>Ioannis Boutsis, Dimitrios Tomaras, Vana Kalogeraki</i></p> <p>W53 - Tracking persons using a network of RGBD cameras, <i>George Galanakis, Xenophon Zabulis, Panagiotis Koutlemanis, Spiros Paparoulis, Vassilis Kouroumalis</i></p> <p>W54 - Defining A Mobile Architecture for Structural Health Monitoring, <i>Panos Sakkos, Dimitrios Kotsakos, Vana Kalogeraki, Dimitrios Gunopulos, Jaakko Hollmén</i></p> <p>W55, The impact of resource heterogeneity on the timeliness of hard real-time complex jobs, <i>Georgios L. Stavrinides, Helen D. Karatza</i></p>
12:40-13:00	Conference Closing	
13:00-14:30	Lunch	
14:30-18:30	Excursion (Tour of Lindos)	

Accepted Posters

P1. Wireless infrastructure setup strategies for healthcare,

Nikunj Agarwal, Sebastian M P

P2. Opportunistic Sensing and Detection of Mild Cognitive Impairment,

Bilgin Kosucu, Netzahualcóyotl Hernández, Temitayo Olugbade

P3. Hardware keys exchange protocol in wireless sensor networks,

Kahina Chelli

P4. Assistive Robotic Platform,

Harris Enotiades, Scott Phan, Christopher McMurrough, Fillia Makedon, Panos Shiakolas

P5. Greek-Language Verbal and Non-Verbal Interaction with a Philosopher Humanoid Robot,

Michalis Papakostas

P6. A probabilistic algorithm with User Feedback Loop for Decision Making during the Hospital Triage Process,

Dimitrios Zikos, Ismail Vandeliwala, Philip Makedon

P7. Experimental testing of a prototype wireless tele-alerting system for monitoring sleeping infants (smart cot MAIA),

Evangelia Spiridonou, Grigoris Matralis, Panagiotis Kartsidis, Lilia Raducan, Miltiadis Yfantis, Alexander Astaras

P8. Creating customizable point of gaze goggles through facial metrics,

Cyril Lutterodt, Scott Phan, Christopher McMurrough

P9. TigerBites: An Assistive Notification System for Local Dining,

David Paulk, Lisa Kim, Diogo Adrados

P10. A Framework for the development of an Assessment Tool for Children with Disabilities,

Philip Makedon, Lynette Watts, Dimitrios Zikos

NSF Doctoral Consortium Awardees

Varsha Evanglene Sudula - *University of Illinois Chicago*

Angela Boisselle - *Texas Women's University*

Christopher Conly - *University of Texas at Arlington*

Shawn Gieser - *University of Texas at Arlington*

Nabil Alshurafa - *University of California Los Angeles*

Panagiotis Moutafis - *University of Houston*

Stanislav Yotov - *University of Houston*

David Allen - *University of Texas at Dallas*

Timothy Rozario - *University of Texas at Dallas*

Fahmida Hamid - *University of North Texas*

Sohail Rafiqi - *Southern Methodist University*

Wenxin Feng - *Boston University*

Alexandros Lioulemes - *UTA/NCSR*

Konstantinos Tsiakas - *UTA/NCSR*

Michalis Papakostas - *UTA/NCSR*

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Christian Peter - *BioArtProducts GmbH*
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Laurel Riek - *University of Notre Dame*
Majid Sarrafzadeh - *UCLA, USA*
Li Shen - *Indiana University, USA*
Maureen Simmonds - *UT Health Science Center San Antonio*
Isabelle Viaud-Delmon - *IRCAM, France*

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Rong Zhang - *University of Texas at Arlington, USA*

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Alexandra Stefan - *University of Texas at Arlington, USA*
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