PETRA 2018

11th ACM Conference on PErvasive Technologies Related to Assistive Environment

The 11th PErvasive Technologies Related to Assistive Environments (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. 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.

TOPICS

- Big Data Management
- Data Privacy and Remote Health Monitoring
- Games for Physical Therapy and Rehabilitation
- User Interface Design and Usability
- Reasoning Systems and Machine Learning
- Affective Computing
- Human-Robot Interaction and Haptics
- Human-Centered Computing
- Gesture and Motion Tracking
- Cognitive Modeling
- Wearable Computing and Devices
- Sensor networks for pervasive health care
- Mobile and wireless technologies
- Healthcare privacy and data security
- Smart rehabilitation systems
- Game design for cognitive assessment
- Behavior monitoring systems
- Computer vision in healthcare
- Virtual and augmented reality environments

- Ambient assisted living
- Navigation systems
- Collaboration and data sharing
- Drug delivery evaluation
- Vocational safety and health monitoring
- Telemedicine and biotechnology
- Technologies for senior living
- Social impact of pervasive technologies
- Intelligent assistive environments
- Robotics in rehabilitation and tele-rehabilitation
- Design for smart wheelchairs and smart canes
- Smart Cities of the Future
- Assistive Technologies for Urban Environments
- Disability computing: Smart systems for persons with visual and/or hearing issues, and prostheses
- Technologies to provide assessment and intervention for Stroke, spinal cord injury, etc
- and many others ...

Important Submission Deadlines:

November 30, 2017: Workshop Proposals
December 15, 2017: Full/Short Papers
January 15, 2018:   Poster Papers
January 15, 2018:   Doctoral Consortium Application
February 15, 2018:   Industry Workshop Proposals

More information available at www.petrae.org
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