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Ambient Assisted Living and Active Aging

5th International Work-Conference, IWAAL 2013
Carrillo, Costa Rica, December 2-6, 2013
Proceedings



Springer

Preface

This volume contains the work presented at the 5th International Work Conference on Ambient Assisted Living (IWAAL 2013) held in Costa Rica during the 2nd–6th December, 2013. The event was established during 2009, inspired by the European Union’s Ambient Assisted Living Joint Program (AALJP). The ageing of the population is concerning national healthcare systems throughout all developed countries in relation to the increasing burdens being placed on the provision of health and social care. Predictions are estimating that by 2020 around one quarter of the European population will be over 65. This will make healthcare systems almost unable to sustain an adequate delivery of care provision unless new models of care and prevention are introduced. The AALJP has as a core strategy to support the development of solutions to improve the delivery of care and increase levels of independence for an ageing population.

Information and Communication Technologies are paving the way towards a new paradigm of advanced systems aimed at both preventing and managing long term healthcare conditions in addition to de-hospitalizing care provision. The interest of healthcare stakeholders is continuously growing around such technological based solutions which aim to address the effects of the ageing of the population. As a result, Ambient Assisted Living (AAL) is becoming a well recognized domain. AAL relates to the use of ICT technologies and services in both daily living and working environments with the aim to help inhabitants by preventing and improving wellness and health conditions, in addition to assisting with daily activities, promotion of staying active, remaining socially connected, and of living independently.

The theme of this year’s event is *Ambient Assisted Living and Active Ageing*. This year, once again, IWAAL collected a remarkable set of scientific works reporting new methods, methodologies, algorithms, and tools specifically devised to address AAL research challenges. In addition, a variety of assistive applications that harness the benefits of sensing technologies, human computer interaction, and ambient intelligence have been included.

The review process of the material submitted was supported by over 60 members from an International Program Committee. This included members from the following countries in Europe: Czech Republic, Northern Ireland, Spain, Italy, Austria, Belgium, England, Germany, The Netherlands, France and Cyprus and was further supported by members from the United States of America, Canada, Mexico, Chile, Panama and Costa Rica. Each paper was allocated up to 3 reviewers with the final process of the review being guided by the two workshop co-chairs.

From the 23 papers submitted, 13 were accepted as full papers and 7 were recommended to revise and re-submit their original submissions as short papers. The final set of papers represents a truly international field of research with

authors from 12 countries including: Jordan, Mexico, Costa Rica, Chile, United States of America, South Korea, Austria, England, Spain, Sweden, Finland and Northern Ireland.

To conclude, we wish to thank all organizers, members of the Program Committee and reviewers for helping us in realizing a top quality conference and producing this volume.

December 2013

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Table of Contents

Session 1: AAL Environments

A Knowledge Based Framework to Support Active Aging at Home Based Environments	1
<i>Miguel Ángel Valero, José Bravo, Juan Manuel García, Diego López-de-Ipiña, and Ana Gómez</i>	
Mobile Based Prompted Labeling of Large Scale Activity Data	9
<i>Ian Cleland, Manhyung Han, Christopher Nugent, Hosung Lee, Shuai Zhang, Sally McClean, and Sungyoung Lee</i>	
Mobile NFC vs Touchscreen Based Interaction: Architecture Proposal and Evaluation	18
<i>Pablo Curiel, Koldo Zabaleta, and Ana B. Lago</i>	
A Database-Centric Architecture for Home-Based Health Monitoring . . .	26
<i>Wagner O. de Moraes, Jens Lundström, and Nicholas Wickström</i>	
Improving Health Services Using Cloud Computing, Big Data and Wireless Sensors	35
<i>Diego Gachet Páez, Víctor Padrón, Manuel de Buenaga, and Fernando Aparicio</i>	

Session 2: User Interaction and Assistive Solutions

Focus Group Evaluation of Scenarios for Fall Risk Assessment and Fall Prevention in Two Countries	39
<i>Heidi Similä, Milla Immonen, Carlos García Gordillo, Tuula Petäkoski-Hult, and Patrik Eklund</i>	
Enhancing Social Interaction between Older Adults and Their Families	47
<i>Diego Muñoz, Francisco Gutierrez, Sergio F. Ochoa, and Nelson Baloian</i>	
Personalization of Serious Videogames for Occupational Engagement for Elderly	55
<i>Mario A. Bruno, Roberto G. Aldunate, and Jaime Meléndez</i>	
Return to Activities of Daily Life: Physiotherapy Rehabilitation with Serious Game	63
<i>Juan Manuel González-Calleros, Sergio Arturo Arzola-Herrera, Josefina Guerrero-García, Etefvina Archundia-Sierra, and Jaime Muñoz-Arteaga</i>	

Image Analysis for Crack Detection in Bone Cement 67
Carlos Briceño, Jorge Rivera-Rovelo, and Narciso Acuña

Session 3: Sensing and Activity Recognition

Mobile and Context-Aware Grocery Shopping to Promote Active
 Aging 71
*Netzahualcoyotl Hernández, Carlos Refugio, Monica Tentori,
 Jesus Favela, and Sergio Ochoa*

Handling Displacement Effects in On-Body Sensor-Based Activity
 Recognition 80
Oresti Baños, Miguel Damas, Héctor Pomares, and Ignacio Rojas

Application of a Cluster-Based Classifier Ensemble to Activity
 Recognition in Smart Homes 88
Anna Jurek, Yaxin Bi, Christopher Nugent, and Shengli Wu

A Vision System for Intelligent Monitoring of Activities of Daily Living
 at Home 96
*Alexandros Andre Chaaaraoui, José Ramón Padilla-López,
 Francisco Javier Ferrández-Pastor, Juan Manuel García-Chamizo,
 Mario Nieto-Hidalgo, Vicente Romacho-Agud, and
 Francisco Flórez-Revuelta*

Detecting Changes in Elderly’s Mobility Using Inactivity Profiles 100
Rainer Planinc and Martin Kampel

Session 4: Key Application Domains

An Integral Medicine Taking Solution for Mild and Moderate Alzheimer
 Patients 104
*Gabriel Urzaiz, Eric Murillo, Sergio Arjona, Ramon Hervas,
 Jesus Fontecha, and José Bravo*

Human Facial Expression Recognition Using Wavelet Transform and
 Hidden Markov Model 112
Muhammad Hameed Siddiqi and Sungyoung Lee

A Real-Time Insulin Injection System 120
*Mwaffaq Otoom, Hussam Alshraideh, Hisham M. Almasaeid,
 Diego López-de-Ipiña, and José Bravo*

Development and Evaluation of an Augmented Object for Notifications
of Particular Emails 128
Gustavo López Herrera, Mariana López, and Luis A. Guerrero

An Augmented Object Prototype for Helping to Prevent the Sudden
Infant Death Syndrome 132
Gustavo López, Mariana López, and Luis A. Guerrero

Author Index 137