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Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion

June 20-22, 2018 - Aristotle University of Thessaloniki, Greece

Accepted papers

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Paper Session D1 #Machine learning and applications

Room A – 20 June | 10h30m – 12h00m

Can Automatic Abbreviation Expansion Improve the Text Entry Rates of Norwegian Text with Compound Words?
Frode Eika Sandnes

A review of machine learning prediction methods for anxiety disorders
Theodore C. Kotsilieris, Emmanuel Pintelas, Ioannis E. Livieris, Panagiotis Pintelas

Predicting length of stay in hospitalized patients using SSL algorithms
Theodore C. Kotsilieris, Ioannis E. Livieris, Ioannis F. Dimopoulos, Panagiotis Pintelas

Content-based Navigation within Mathematical Formulae on the Web for Blind Users and its Impact on Expected User Effort
André Pimenta Freire, Luiz Felipe da Paixão Silva, António Armando de Oliveira Barbosa, Evelise Roman Corbalan GoisFreire, Paula Christina Figueira Cardoso, Rafael Serapilha Durelli

Paper Session D2 #Ambient assisted living

Room A – 20 June | 14h30m – 16h30m

A Study on the Needs of Older Adults for Interactive Smart Home Environments in Brazil
André Pimenta Freire, Letícia Diniz Tsuchiya, Gabriela Oliveira, Raphael Wincklerde Bettio, Juliana Galvani Greghi

Braille Technology Beyond the Financial Barriers: A Braille Literacy Platform to Effectively Combat Braille Literacy Crisis
Patric Galera Forcelini, Laura Sánchez García, Ermelindo Schultz

Adapting web menus to mobile devices for Elderly interactions
Humberto Lidio Antonelli, Willian Massami Watanabe, Renata Pontin de Mattos Fortes

Conversational Assistant for an Accessible Smart Home
António Teixeira, Maksym Ketsmur, Nuno Almeida, Samuel Silva, Mário Rodrigues

Multimodal interaction for accessible smart homes
Samuel Silva, Nuno Almeida, António Teixeira, Maksym Ketsmur, Diogo Guimarães, Emanuel Fonseca

Paper Session D3 #Web accessibility

Room A – 20 June | 18h00m – 19h30m

A survey on accessibility awareness of Brazilian web developers
Humberto Lidio Antonelli, Sandra Souza Rodrigues, Willian Massami Watanabe, Renata Pontin de Mattos Fortes

Emotionally-Aware Multimodal Interfaces: Preliminary Work on a Generic Affective Modality
Samuel Silva, Tiago Henriques, Susana Brás, Sandra C. Soares, Nuno Almeida, António Teixeira

Taking text simplification to the user: integrating automated modules into a web browser
Susana Bautista, Raquel Hervás, Pablo Gervás, Axel Bagó, Javier García

A support to evaluate web accessibility and usability issues for older adults
Sandra Souza Rodrigues, Patrick Eduardo Scuracchio, Renata Pontin de Mattos Fortes

Paper Session D4 #New approaches on accessibility

Room B – 20 June | 18h00m – 19h30m

FatoXtract a new technology in rehabilitation
Jéssica P. M. Vital, N. M. Fonseca Ferreira, Salviano F. S. P. Soares, António Valente, João Manuel Pereira Barroso

Educational Robotics and Down syndrome: Investigating student performance and motivation
Theodora Papazoglou, Kalliopi Aslanoglou, Charalampos Karagiannidis

Sculpture maps and assistive navigation as a way to promote universal access
Hugo Fernandes, Tânia Rocha, Arsénio Reis, Hugo Paredes, João Barroso

Benefits of EN 301 549 for each group of People with Special Needs
Márcio Ricardo Martins, Ramiro Gonçalves, Francisco Godinho, João Novais

Paper Session D5 #Smart Destinations technological applications for enhancing accessibility and fighting info-exclusion

Room A – 21 June | 8h30m – 10h00m

Senior users of social networks: Technological experience and use habits analysis
Celia M.Q. Ramos, Maria Manuela Mendonça, João M.F. Rodrigues

IoE Accessible Bus Stop: an initial concept
João Rodrigues, Micael Martins, Nelson Sousa, Manuela Rosa

A Route Planner Supported on Recommender Systems Suggestions: Enhancing Visits to Cultural Heritage Places
Pedro J.S. Cardoso, Pedro Guerreiro, João A. R. Pereira, Ricardo J.M. Veiga

Paper Session D6 #Technologies as a tool for the enhancement of the quality of life of the people with disabilities

Room A – 21 June | 10h30m – 12h00m

Using technology-mediated music-making at school with children with autism and intellectual disabilities: a participatory multidisciplinary approach
Lila Kossyvaki

Language processing in visually and non-visually impaired individuals: the use of Auditory Event-Related Potentials
Dimitra Apostolaki

Digital Storytelling for the empowerment of people with intellectual disabilities
Maria Saridaki, Michalis Meimaris

Educational Robotics and Down syndrome: Investigating student performance and motivation
Kalliopi Aslanoglou

Cognitive games for children's Executive Training with or without learning difficulties: an Overview
Eleni Rachanioti

Paper Session D7 #Art meets Technology for social inclusion and learning – Part 1

Room A – 21 June | 14h30m – 17h00m

Performance analysis of Microsoft's and Google's Emotion Recognition API using pose-invariant faces
Salik Ram Khanal, João Barroso, Vítor Filipe

Using Art and Technology to support Geometry Learning for All: A Conceptual Instructional Design
Sofia J. Hadjileontiadou, Anna Klothou, Vasiliki Basiloudi, Dimitrios Iakovakis, Vasileios Charisis, Stelios Hadjidimitriou, Sofia Balula Dias, José A. Diniz, Leontios J. Hadjileontiadis, Charalampos Sakonidis

Artful thinking and Augmented Reality in kindergarten: technology contributions to the inclusion of socially underprivileged children in creative activities
Antonia Dagla, Evgenia Roussou

Exploiting Digital Narrative Coaching for self-determining leadership profiles of Educational Leaders,
Tharrenos Bratitsis, Stella Mavidou, Ioanna Tsolopani

Paper Session D8 #Art meets Technology for social inclusion and learning – Part 2

Room A – 21 June | 18h00m – 19h30m

"Out of Eden Learn": An online community for an inclusive world created by Harvard's Project Zero research center
Kiriaki Melliou, Tharrenos Bratitsis, Angela Salmon

Artful Leadership: developing the new generation of servant leaders through arts
Tharrenos Bratitsis, Ioanna Tsolopani, Michalis Ioannou

Digital storytelling: giving voice to socially excluded people in various contexts
Anna Moutafidou, Tharrenos Bratitsis

Inclusive strategies for the History Subject in 6th Grade of Greek Primary School: Gamifying the curriculum with Digital Storytelling and Augmented Reality
Dimitrios Rammos, Tharrenos Bratitsis

Paper Session D9 #Improving accessibility and fighting info-exclusion through training in higher education institutions

Room A – 22 June | 8h30m – 10h00m

Inclusive education on stem subjects with the arduino platform
Dimitris Tsiastoudis, Hariton Polatoglou

An Integrated Approach for Fighting Dropout and Enhancing Students' Satisfaction in Higher Education
Manuella Kadar

Innovations Assessment Framework to Promote Knowledge Transfer
Elsa Marcelino-Jesus

Implementing an Accessibility Specialization in a European Master Degree in Human-Computer Interaction
Angélica de Antonio

Paper Session D10 #Software Engineering challenges for delivering accessible interactive systems

Room A – 22 June | 10h30m – 12h30m

Exploratory Study on the Use of Software Product Lines in the Development of Quality Assistive Technology Software
Heitor Costa, Luana Almeida Martins, Paulo Afonso Parreira Junior, André Pimenta Freire

Enabling aid in remote care for elderly people via mobile device: the MobiCare case study
Anderson Canale Garcia, Silvana Maria Affonso De Lara

Supporting the Development of Social Networking Mobile Apps for Deaf Users: Guidelines Based on User Experience Issues
Ricardo Pezzotti Schefer

A survey on the tool support for the automatic evaluation of mobile accessibility
Marcelo Medeiros Eler, Camila Ferreira Pereira Silva, Gordon Fraser

Enhancing usability of a Citizen Observatory based on User-centered Design
Renata Pontin Fortes, Livia Degrossi, João Paulo de Albuquerque Porto, Bruno Bacelar Abe

Paper Session D11 #Technologies for ageing in place

Room B – 22 June | 10h30m – 12h30m

Wearable Activity Trackers Supporting Elderly Living Independently: A Standards based Approach for Data Integration to Health Information Systems
Philipp Urbauer, Matthias Frohner, Veronika David, Stefan Sauermann

Comparative usability study of an iTV interface for seniors
Telmo Silva

A Single Point of Contact Data Platform for Rehabilitative Exercises and Equipment
Richard Paštěka

Development of a Multi-Purpose Easy-to-Use Set of Tools for Home Based Rehabilitation
Veronika David

Telemonitoring of Blood Glucose
Matthias Frohner

The Design for All Paradigm in the Development of Applications to Support Older Adults: A Review
Rute Bastardo

Personas and Scenarios to Improve the Development of an Electronic Social Record Platform
Ana Isabel Martins

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