

Accessibility through Preferences: Context-Aware Recommender of Settings

Andrés Iglesias-Pérez ^{*a,1}, Claudia Loitsch ^{*b}, Nikolaos Kaklanis ^{*c}, Konstantinos Votis ^{*c}, Andreas Stiegler ^{*d}, Konstantinos Kalogirou ^{*e}, Guillem Serra-Autonell ^{*f}, Dimitrios Tzovaras ^{*c}, Gerhard Weber ^{*b}

^aR&D Department, Fundosa Technosite²

^bTechnical University of Dresden

^cInformation Technologies Institute, Centre for Research and Technology Hellas

^dStuttgart Media University

^eHellenic Institute of Transport, Centre for Research and Technology Hellas

^fBarcelona Digital Technology Centre

Keywords: e-Inclusion, Personalization, Context-awareness for universal access

Abstract. A proposal for merging context-awareness and user preferences in the same software system is provided. Several modules from the on-going CLOUD4All project (European Commission Seventh Framework Programme) are enhanced with Context Awareness, including the Semantic Matching Framework, the RuleBased Matchmaker (with new rules) and the Statistical Matchmaker (with new features to be used as predictors). Some other components are created exclusively to deal with context features, as the Context Aware Server (to add context from motes) and the Minimatchmaker (to save computation and network resources for well-known situations)

¹ Corresponding Author. Technosite C/Albasanz 16, 3-B 28037 Madrid. Spain.
aiglesias@technosite.es

² Results presented in this paper have been researched within the Cloud4all project. Cloud4all is an R&D project that receives funding from the European Commission under the Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 289016.