

# Giving Elderly Access to Smart Environments Providing Adaptive User Interfaces Based on Web Components, the Universal Remote Console and the Global Public Inclusive Infrastructure

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## Abstract

An increasing number of devices and applications from the Smart Home and Ambient Assisted Living domain are leaving the experimental state and are reaching commercial viability. These developments come with great opportunities, but also with challenges for elderly and disabled people. In this paper, we propose a holistic approach, using concepts of the Global Public Infrastructure (GPII), the Universal Remote Console (URC) and the upcoming technology of Web Components, to build personalized and adaptive user interfaces for people with special needs. The goal is to provide for everyone the interface fitting best his or her needs. In this paper we present the preliminary result of our approach and discuss its impact on the design of adaptive user interfaces.