An Ontology-based Context-aware System for Smart Homes: E-care@home

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Abstract: Smart home environments have a significant potential to provide for long-term monitoring of users with special needs in order to promote the possibility to age at home. Such environments are typically equipped with a number of heterogeneous sensors that monitor both health and environmental parameters. This paper presents a framework called E-care@home, consisting of an IoT infrastructure, which provides information with an unambiguous, shared meaning across IoT devices, end-users, relatives, health and care professionals and organizations. We focus on integrating measurements gathered from heterogeneous sources by using ontologies in order to enable semantic interpretation of events and context awareness. Activities are deduced using an incremental answer set solver for stream reasoning. The paper demonstrates the proposed framework using an instantiation of a smart environment that is able to perform context recognition based on the activities and the events occurring in the home.

1. Introduction

A current vision in the area of ICT-supported independent living of elderly people involves populating homes with connected electronic devices ("things"), such as sensors and actuators, and linking them to the Internet. Creating such an Internet of Things (IoT) infrastructure is done with the ambition of providing automated information gathering and processing on top of which e-services for the elderly people (end-users) residing in these homes can be built [1].

As a basis for these services, the information from the home devices can be collected and organized in the form of personal health records (PHRs). In addition to the information contained in the PHRs, the services need to be linked and interfaced to other computerized "things" such as care- and health-related information resources, i.e., electronic health records (EHRs), homemaker services documentation, end-user-generated information and informal caregiver information (e.g., information provided by family, neighbors, social networks, etc.). Semantic interoperability-related technologies play a central role in ambient intelligence systems and their components, such as pervasive/ubiquitous computing, profiling, context awareness and human-centric design. Thus, the IoT infrastructure defines how the things are connected through the Internet and how those things "talk" with other things and communicate with other systems in order to expose their capabilities and functionalities. Technically speaking, advances in the IoT area are mainly supported by continuous progress in wireless sensor/actuator networks' software applications and by manufacturing low-cost and

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