



Article

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.

Keywords: ambient assisted living; context awareness; Internet of Things; ontologies; activity recognition; smart homes

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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Advanced Information Systems Engineering Marta Indulska,Iris Reinhartz-Berger,Carlos Cetina,Oscar Pastor,2023-06-07 This book constitutes the proceedings of the 35th International Conference on Advanced Information Systems Engineering CAiSE 2023 which was held in Zaragoza Spain during June 12 16 2023 The 36 full papers included in these proceedings were selected from 161 submissions They were organized in topical sections as follows Cyber human and cyber physical systems requirements engineering IoT environmental applications process mining event driven process mining ontology and knowledge representation model driven approaches process monitoring conformance compliance and workarounds data centric approaches privacy and security explainable AI service related approaches Technologies and Innovation Rafael Valencia-García,Gema Alcaraz-Mármol,Javier Del Cioppo-Morstadt,Néstor Vera-Lucio,Martha Bucaram-Leverone,2019-11-20 This book constitutes the proceedings of the 5th International Conference on Technologies and Innovation CITI 2019 held in Guayaquil Ecuador in December 2019 The 14 full papers presented in this volume were carefully reviewed and selected from 32 submissions They are organized in topical sections named ICT in agronomy knowledge based systems and pattern recognition internet of things and computer architecture **Smart Homes and Beyond** Chris D. Nugent,Juan Carlos Augusto,2006 Based on the thought to continue to develop an active research community dedicated to explore how Smart Homes and Health Telematics can foster independent living This work focuses on promoting personal autonomy and extending the quality of life by considering including smart services inside and outside of the home What Every Engineer Should Know About the Internet of Things Joanna F. DeFranco,Mohamad Kassab,2021-11-14 Internet of Things IoT products and cyber physical systems CPS are being utilized in almost every discipline and there continues to be significant increases in spending on design development and deployment of IoT applications and analytics within every domain from our homes schools government and industry This practical text provides an introduction to IoT that can be understood by every engineering discipline and discusses detailed applications of IoT Developed to help engineers navigate this increasingly important and cross disciplinary topic this work Offers research based examples and case studies to facilitate the understanding of each IoT primitive Highlights IoT s connection to blockchain Provides and understanding of benefits and challenges of IoT and its importance to a variety of engineering disciplines Written to be accessible to non experts in the subject What Every Engineer Should Know About the Internet of Things communicates the importance of this technology and how it can support and challenge all interrelated actors as well as all involved assets across many domains **Transactions on Engineering Technologies** Sio-Iong Ao,Haeng Kon Kim,Mahyar A. Amouzegar,2017-02-04 This proceedings volume contains selected revised and extended research articles written by researchers who participated in the World Congress on Engineering and Computer Science 2015 held in San Francisco USA 21 23 October 2015 Topics covered include engineering mathematics electrical engineering circuits communications systems computer science chemical engineering systems

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