



**New IOS Press Book Series**

## **Ambient Intelligence and Smart Environments**

**Editor-in-Chief**

Juan C. Augusto

University of Ulster, United Kingdom

### **Aims and Scope**

*Ambient Intelligence* (AmI) and *Smart Environments* (SmE) are two mutually complementary areas that are growing fast as multi-disciplinary fields with a huge potential to benefit society. A Smart Environment is a place that has been enriched with technology (sensors, processors, actuators, information terminals, and other devices interconnected through a network) to enhance the services that can provide to humans. The most widely realization of this idea are 'Smart Homes' but equally hospitals, cars, classrooms, offices, streets and other places are being considered. Ambient Intelligence enhances the global behavior of such a system by providing high level functionality which provides an added value to the typical services expected in a specific environment. Usually an analysis is performed in real-time over the events that are recorded within the smart environment which allows a timely interaction with the inhabitants of the environment to provide a service.

There is a wide range of assistance that an AmI system can aim to provide. Typical examples are actions aimed at preserving or increasing safety in a smart home inhabited by people of advanced age or with special physical or cognitive conditions which can increase their level of vulnerability or dependability. Smart Homes can be also used to encourage better life styles by comparing trends on the activities developed over a longer period of time against targets set by the house occupants. Economy (e.g., through a rational use of energy) and entertainment (e.g., by providing personalized television or music services) depending on the types of activities and time of the day that they are developed can be also considered. Equally, cars can be transformed into a smart environment to assist drivers in difficult conditions, classrooms can be equipped to enhance the teaching-learning experience and offices can be supplemented with technology to support effective workgroup collaboration.

The *Ambient Intelligence and Smart Environments* (AISE) series welcomes proposals to publish (co-)authored books, outstanding Ph.D. thesis, (co-)edited volumes and proceedings of technical events. The editorial board will consider theoretical and practical aspects of AmI and SmE including reports on how to: realize appropriate infrastructures, provide adequate and efficient services and caring for the social aspects derived from the interaction between humans and the system.

**Proposals for publication** as a volume in the AISE series should be sent to the Editor-in-Chief Dr. Juan C. Augusto: [jc.augusto@ulster.ac.uk](mailto:jc.augusto@ulster.ac.uk)

### **Editorial Board**

Emile Aarts (Philips, The Netherlands), Hamid Aghajan (Stanford University, USA), Michael Berger (Siemens, Germany), Vic Callaghan (University of Essex, UK), Diane Cook (Washington State University, USA), Sajal Das (University of Texas at Arlington, USA), Anind Dey (Carnegie Mellon University, USA), Sylvain Giroux (Université de Sherbrooke, Canada), Pertti Huuskonen (Nokia - NRC Tampere, Finland), Jadwiga Indulska (University of Queensland, Australia), Achilles Kameas (Hellenic Open University, Greece), Peter Mikulecký (University of Hradec Kralove, Czech Republic), Daniel Shapiro (Applied Reactivity, USA), Toshiyo Tamura (Chiba University, Japan), Michael Weber (University of Ulm, Germany).

IOS Press is a rapidly expanding Scientific, Technical, Medical and Professional publishing house focusing on a broad range of subject areas, such as; medical science, healthcare, telecommunication, artificial intelligence, information and computer science, parallel computing, physics and chemistry, environmental science, and other subjects.

**IOS  
Press**

**IOS Press**  
Nieuwe Hemweg 6B  
1013 BG Amsterdam  
The Netherlands  
Tel.: + 31 20 688 3355  
Fax.: + 31 20 687 0039  
Email: [market@iospress.nl](mailto:market@iospress.nl)  
JRL: [www.iospress.nl](http://www.iospress.nl)

**IOS Press, Inc.**  
#502 Rachael Manor Drive  
Fairfax, VA 22032, USA  
Tel. +1 7003 323 5600  
Fax: +1 703 323 3668  
Email: [iosbooks@iospress.com](mailto:iosbooks@iospress.com)  
JRL: [www.iospress.com](http://www.iospress.com)

**Gazelle Book Services Ltd**  
White Cross Mills  
Hightown  
Lancaster LA1 4XS  
United Kingdom  
Tel.: +44 1524 68765  
Fax: +44 1524 63232  
Email: [sales@gazellebooks.co.uk](mailto:sales@gazellebooks.co.uk)  
JRL: [www.gazellebooks.co.uk](http://www.gazellebooks.co.uk)