

# International Journal of Ambient Computing and Intelligence

October-December 2013, Vol. 5, No. 4

## Table of Contents

### EDITORIAL PREFACE

- iv **Vehicular Security: Hackers Moving to the Roads in a Bid to Increase Attack Surface**  
*Kevin Curran, School of Computing and Intelligent Systems, University of Ulster, Londonderry, UK*

### RESEARCH ARTICLES

- 1 **Weight-Aware Multidimensional Advertising for TV Programs**  
*Jianmin Wang, School of Information Science and Technology, Sun Yat-sen University, Guangzhou, China*  
*Yi Liu, School of Information Science and Technology, Sun Yat-sen University, Guangzhou, China*  
*Ting Xie, School of Information Science and Technology, Sun Yat-sen University, Guangzhou, China*  
*Yuchu Zuo, School of Information Science and Technology, Sun Yat-sen University, Guangzhou, China*
- 12 **Integrated Network Topological Control and Key Management for Securing Wireless Sensor Networks**  
*S. Kumar, Nehru Institute of Technology, Coimbatore, Tamil Nadu, India*  
*N. Nagarajan, Coimbatore Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India*
- 25 **Assessing Smart-Home Platforms for Ambient Assisted Living (AAL)**  
*Michiel Brink, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, Netherlands*  
*Ignacio González Alonso, Department of Informatics, University of Oviedo, Oviedo, Spain*  
*Johanna E.M.H. van Bronswijk, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, Netherlands*
- 45 **UWB Indoor Location for Monitoring Dementia Patients: The Challenges and Perception of a Real-Life Deployment**  
*Agnes Grünerbl, German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany*  
*Gernot Bahle, German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany*  
*Friedrich Hanser, Institute of Biomedical and Technical Engineering, University of Health Sciences (UMIT), Hall in Tirol, Austria*  
*Paul Lukowicz, German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany*

### Copyright

The **International Journal of Ambient Computing and Intelligence (IJACI)** (ISSN 1941-6237; eISSN 1941-6245), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Ambient Computing and Intelligence* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; GetCited; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory