# INTERNATIONAL JOURNAL OF Ambient Computing and Intelligence

## April-June 2012, Vol. 4, No. 2

# **Table of Contents**

## Editorial Preface

i How Instant is Instant when it Comes to Crawling the Web? Kevin Curran, University of Ulster, UK

## **Research Articles**

1 Turning Homes into Low-Cost Ambient Assisted Living Environments Alexiei Dingli, University of Malta, Malta Daniel Attard, University of Malta, Malta Ruben Mamo, University of Malta, Malta

### **24** The Ambient Digital Library Michael J. O'Grady, University College Dublin, Ireland Gregory M. P. O'Hare, University College Dublin, Ireland

35 Automating the Generation of User Activity Timelines on Microsoft Vista and Windows 7 Operating Systems

Stephen O'Shaughnessy, Institute of Technology Blanchardstown, Ireland Anthony Keane, Institute of Technology Blanchardstown, Ireland

### 48 An Experimental Evaluation of IEEE 802.15.4a Ultra Wide Band Technology for Precision Indoor Ranging

Tingcong Ye, Tyndall National Institute, Ireland Michael Walsh, Tyndall National Institute, Ireland Peter Haigh, Tyndall National Institute, Ireland John Barton, Tyndall National Institute, Ireland Alan Mathewson, Tyndall National Institute, Ireland Brendan O'Flynn, Tyndall National Institute, Ireland Cian O'Mathuna, Tyndall National Institute, Ireland

### 64 Telehomecare in The Netherlands: Barriers to Implementation

H.S.M. Kort, HU University of Applied Sciences Utrecht and Eindhoven University of Technology, The Netherlands J. van Hoof, HU University of Applied Sciences Utrecht and ISSO, The Netherlands