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Released: January 2012

Innovative Applications of Ambient Intelligence: Advances in Smart Systems



Kevin Curran (University of Ulster, UK)

While ambient intelligence has long been relegated to the realm of science fiction, creating smart technology that is increasingly responsive to individuals and environments is, in many ways, becoming a reality, as the body of research and opportunity for practical application in this field continues to grow.

Innovative Applications of Ambient Intelligence: Advances in Smart Systems provides perspectives on the convergence of ubiquitous computing, intelligent systems research, and context awareness with the aim of encouraging the further development of ambient intelligence frameworks and research. Focusing on interaction and communication in smart environments, as well as the successful development and design of ambient interfaces and platforms, this book aims to further the continuously growing dialogue on the promise of ambient computing.

Topics Covered:

- Ambient Intelligence Environments
- Ambient Interface Design
- Context-Awareness
- Ergonomic Cognitive Training
- Immersive Computing
- Mixed Reality Environments
- Mobile Multimedia
- Platforms for Ambient Computing
- Smart Environments
- User Interface Design

ISBN: 9781466600386; © 2012; 332 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Kevin Curran, BSc (Hons), PhD, SMIEEE, FBCS CITT, SMACM, FHEA, is a Reader in Computer Science at the University of Ulster and group leader for the Ambient Intelligence Research Group. His achievements include winning and managing UK & European Framework projects and Technology Transfer Schemes. Dr. Curran has made significant contributions to advancing the knowledge and understanding of computer networking and systems, evidenced by over 700 published works. He is perhaps most well-known for his work on location positioning within indoor environments, pervasive computing, and internet security. His expertise has been acknowledged by invitations to present his work at international conferences, overseas universities, and research laboratories. He is a regular contributor to BBC Radio & TV news in the UK and is currently the recipient of an Engineering and Technology Board Visiting Lectureship for Exceptional Engineers and is an IEEE Technical Expert for Internet/Security matters. He is listed in the *Dictionary of International Biography*, *Marquis Who's Who in Science and Engineering*, and in *Who's Who in the World*. Dr. Curran was awarded the Certificate of Excellence for Research in 2004 by Science Publications and was named Irish Digital Media Newcomer of the Year Award in 2006. Dr. Curran has performed external panel duties for various Irish Higher Education Institutions. He is a fellow of the British Computer Society (FBCS), a senior member of the Association for Computing Machinery (SMACM), a senior member of the Institute of Electrical and Electronics Engineers (SMIEEE), and a fellow of the higher education academy (FHEA). Dr. Curran's stature and authority in the international community is demonstrated by his influence, particularly in relation to the direction of research in computer science. He has chaired sessions and participated in the organising committees for many highly-respected international conferences and workshops. He is the Editor in Chief of the *International Journal of Ambient Computing and Intelligence* and is also a member of 15 journal editorial committees and numerous international conference organising committees. He has authored a number of books and is the recipient of various patents. He has served as an advisor to the British Computer Society in regard to the computer industry standards and is a member of BCS and IEEE Technology Specialist Groups and various other professional bodies.

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