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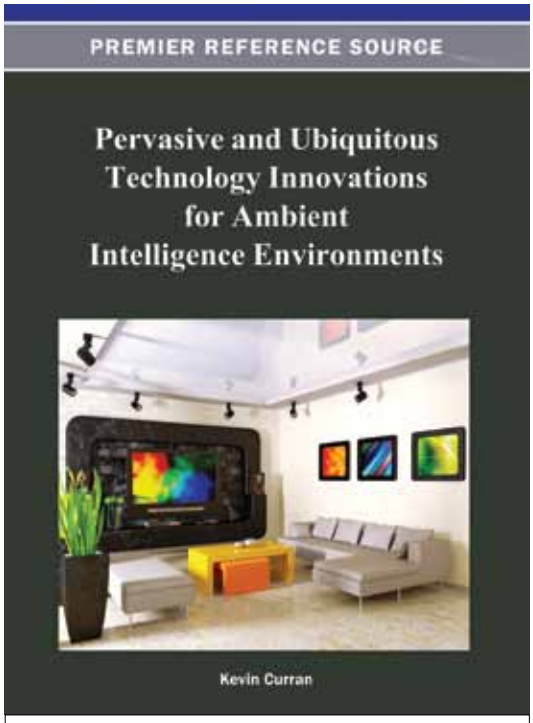
Released: September 2012

Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments



ISBN: 9781466620414; © 2013; 316 pp.
Print: US $195.00 | Perpetual: US $295.00 | Print + Perpetual: US $390.00

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Print: US $185.00 | Perpetual: US $280.00
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Kevin Curran (University of Ulster, UK)

Ambient intelligence began as a vision for the future of technology and has now become a reality. The widespread use of modern technology has quickly expanded into the use of our everyday lives. On a daily basis, we are instantly connected to people, places, ideas, and information which have led to the acceleration of knowledge. As the continuing development of new technologies becomes available, those technologies will play an integral role in the future.

Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments is a collection of research on the subject matter of human computer interaction, ubiquitous computing, embedded systems, and other areas of study which contribute to ambient intelligence. This comprehensive reference aims to broaden the overall knowledge on ambient intelligence as it relates to the aspects of modern life.

Topics Covered:

- Ambient Intelligence for Smart Home Environments
- Ambient Networks
- Analysis, Design, Implementation, and Evaluation of Ambient Computing Systems and Environments
- Applications and Experience with Deployed Systems
- Automatic Configuration of Applications for Intelligent Environments and End-User Support
- Communication Systems and Infrastructure for Ambient Intelligence
- Context Awareness
- Human Interaction with Autonomous Systems
- Innovative Applications of AI to Ambient Intelligence
- Interacting with Ambient Intelligence
- Mobile Computing
- Security, Privacy, and Trust in Ambient Computing

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 CITP, 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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