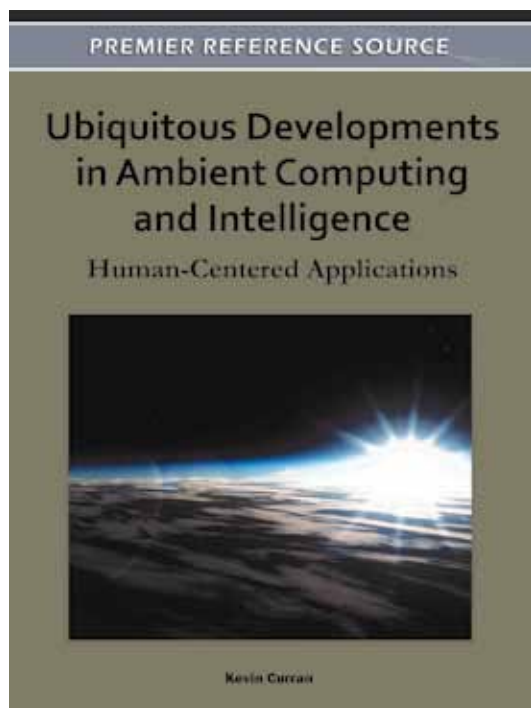


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## Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications



Kevin Curran (University of Ulster, Ireland)

Ambient Intelligence (Aml) is an emerging paradigm for knowledge discovery, which originally emerged as a design language for invisible computing and smart environments. Since its introduction in the late 1990's, Aml has matured and evolved, having inspired fields including computer science, interaction design, mobile computing, and cognitive science.

**Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications** provides a comprehensive collection of knowledge in cutting-edge research in fields as diverse as distributed computing, human computer interaction, ubiquitous computing, embedded systems, and other interdisciplinary areas which all contribute to Aml. Predicting the technologies that will shape our ever changing world is difficult however, in this book it is discussed that Ambient Intelligent technology will develop considerably in the future.

### Topics Covered:

- Agent-based approaches to ambient intelligence
- Ambient intelligence for smart home environments
- Applications and experience with deployed systems
- Communication systems and infrastructure for ambient intelligence
- Context awareness, sensing, and inference for ambient intelligence
- Human interaction with autonomous systems
- Innovative applications of AI to ambient intelligence
- Interacting with ambient intelligence
- Mobile computing
- Objects, devices, and environments that embody ambient intelligence
- Security, privacy, and trust in ambient computing
- Self-adaptive systems

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Kevin Curran BSc (Hons), PhD, SMIEEE, MBCS CITP, MACM, MIEE, FHEA has made significant contributions to advancing the knowledge and understanding of computer networking, evidenced by over 350 publications. He is a regular contributor to BBC radio & TV news in Northern Ireland and is listed in the *Dictionary of International Biography*, *Marquis Who's Who in Science and Engineering* and by *Who's Who in the World*. He has chaired sessions and participated in the organising committees for many highly-respected international conferences and workshops. He is on the editorial boards of a number of journals and he is Editor in Chief of the *International Journal of Ambient Computing and Intelligence*. Dr Curran has also served as an advisor to the British Computer Society in regard to computer industry standards.

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Curran Kevin (University of Ulster, UK)  
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