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Recent Advances in Ambient Intelligence and Context-Aware Computing

Kevin Curran

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Recent Advances in Ambient Intelligence and Context-Aware Computing

Part of the Advances in Computational Intelligence and Robotics Book Series

Kevin Curran (University of Ulster, UK)

Modern devices, from phones and cars to houses and the appliances within them, are being designed with formidable computational power and expanded functionality. To be truly effective, these smart devices must effectively process data from their environment and experiences and make decisions based on that information.

Recent Advances in Ambient Intelligence and Context-Aware Computing investigates the functionality of ubiquitous computational systems and how they may adapt to their environment to improve the quality of interaction for the end-user. This reference book will be of value to under- and post-graduate students, professionals, and researchers networking, computer science, communications, and other information technology disciplines.

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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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