

Cris Nugent: *Self-management of health and wellbeing: The role of Smart Environments*

Monday April 7, 13:15 (1:15pm), Wigforssalen,
Halmstad University

One of the key challenges facing society as our population continues to grow is the demands being placed on healthcare provision. This is coupled with the need to develop new approaches to allow the general public to take more control of their own health and lifestyle management. The increased prevalence of technology usage, its reduced costs and improved processing and communication speeds are all key factors which have resulted in new technology based solutions being investigated to address these challenges.

Through a consolidation of sensing technology with the ability to record data, intelligent data analysis to interpret the data collected and personalised interfaces to support interaction with users it has now become possible to deliver support when it is required, where it is required. This core paradigm can be personalised to each individual user's needs through the analysis of subtle changes over time in an effort to provide a practical framework to self manage both health and lifestyle.

This talk aims to discuss the evolution of technological solutions which have been developed to support self-management of health and wellbeing. It aims to discuss the practical challenges associated with creating and sustaining smart environments in addition to assessing the impact which they have made to date.



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About Prof. Chris Nugent

Chris received a Bachelor of Engineering in Electronic Systems and DPhil in Biomedical Engineering both from the University of Ulster in 1995 and 1998 respectively. He began work at the University of Ulster in 1998 as a Research Fellow in the Northern Ireland BioEngineering Centre. From there he moved to a lecturing position in the School of Computing and Mathematics in 2000, to Senior Lecturer in Computer Science in 2003 to Reader in 2006 and to Professor of Biomedical Engineering in October 2008.

His research within biomedical engineering addresses the themes of the development and evaluation of mobile and pervasive computing solutions to support ambient assisted living. He has published extensively in these areas with over 350 papers spanning theoretical, clinical and biomedical engineering domains.

At present he is Group Leader of the Smart Environments Research Group which was established in 2009.