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Biography

Hans Gellersen holds an MSc and PhD in computing, both from University of Karlsruhe, Germany. Having obtained his first degree, he became Research Assistant at Karlsruhe's Telematics Insitute in 1992 where he later helped create the Telecooperation Office in 1994. Following completion of his PhD he was director of the Telecooperation Office from 1996 to 2000 and managed numerous European projects and industrial collaborations in the area of distributed interactive systems. In this time he became increasingly active in the emerging ubiquitous computing community, and in 1999 organized and chaired the First Symposium on Handheld and Ubiquitous Computing (HUC, now continued as UBICOMP). Since March 2001, Hans Gellersen is Chair in Interactive Systems at Lancaster University to lead Ubiquitous Computing research at Lancaster's Computing Department. This involves him currently in the European initiave "The Disappearing Computer" as project co-ordinator, and in the UK Equator research programme on "Technical Innovation in Physical and Digital Life".

Research Interests

I am interested in Ubiquitous Computing from an Interactive Systems perspective, and specifically in computer-based systems that "take the real world into the loop" to support the situatedness of technology use. This spans a variety of research themes:

- context-aware computing: augmentation of computer systems with the ability to obtain and use situational context, for instance based on sensor integration
- situated and disaggregated user interfaces: employing the physical environment as interface
- computer-augmented artefacts: enabling non-computational artefacts as soft media

Current and recent related projects include:

- TEA, a European project that investigated multi-sensor context-awareness for mobile devices, and specifically mobile phones (*www.teco.edu/tea/*).
- Mediacup, an exploration of everyday artefacts augmented with sensing, processing and communication (*mediacup.teco.edu/*).
- Smart-Its, a Lancaster-led project in the Disappearing Computer initiave, investigating embedded technology for augmentation of everyday artefacts with collective context-awareness (*www.smart-its.org/*).
- Domestic Environments (*www.equator.ac.uk/projects/Domus.html*), a collaboration with the Royal College of Arts on technological design for the home based on cultural probes into how individuals feel about their private spaces.
- Web Visitor Awareness, an investigation of ambient display and augmented reality techniques to support the host-visitor relationship in the Web.

Recent Publications

H.W. Gellersen, A. Schmidt and M. Beigl: *Multi-Sensor Context-Awareness in Mobile Devices and Smart Artefacts*. To appear in Mobile Networks and Applications.

H.W. Gellersen: *Where Computation and Artefacts Meet*. In: INFORMATIK/INFORMATIQUE, 5/2001.

L.E. Holmquist, F. Mattern, B. Schiele, P. Alahuhta, M. Beigl and H.W. Gellersen: *Smart-Its Friends - A Technique for Users to Easily Establish Connections between Smart Artefacts*. Proc. Ubicomp 2001, Atlanta, Sept. 2001, Springer-Verlag.

A. Schmidt and H.W. Gellersen: *Visitor Awareness in the Web*. Proc. WWW10, Hongkong, May 2001, ACM Press.