



Dr. Roy Want

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Biography

Roy Want is a Principal Engineer at Intel Research in Santa Clara, California. His interests include ubiquitous computing, wireless protocols, hardware design, embedded systems, distributed systems, automatic identification and micro-electromechanical systems (MEMS).

Want received his BA in computer science from Churchill College, Cambridge University, UK in 1983 and continued research at Cambridge into reliable distributed multimedia-systems. He earned a PhD in 1988. While at Olivetti Research (1988-91) he developed the Active Badge, a system for automatically locating people in a building. He joined Xerox PARC's Ubiquitous Computing program in 1991 and lead a project called PARCTab, one of the first context-aware computer systems. At PARC Want managed the Embedded Systems group and earned the position of Principal Scientist. A more complete summary of his work can be found at www.ubicomp.com/want.

Research Interests

Mobile computing, hardware design, electronic commerce, smart cards, distributed systems, multimedia systems, fast networking, location finding systems, cellular automata, extreme user interfaces, MEMS, electronic tagging.

Five most relevant papers for this workshop

"Bridging Real and Virtual Worlds with Electronic Tags", Roy Want, Ken Fishkin, Beverly Harrison, Anuj Gujar. Proceedings of ACM SIGCHI. May 1999, Pittsburgh, pp370-377 (supporting video available).

"Embodied User Interfaces for Really Direct Manipulation", Communications of the ACM, Sept. 2000, Vol.43 No.9, pp75-80, Ken Fishkin, Anuj Gujar, Beverly Harrison, Tom Moran and Roy Want.

"An Overview of the Parctab Ubiquitous Computing Experiment", IEEE Personal Communications, December 1995, Vol 2. No.6, pp28-43 Roy Want, Bill Schilit, Norman Adams, Rich Gold, David Goldberg, Karin. Petersen, John Ellis, Mark Weiser.

"Context-Aware Computing Applications", Bill Schilit, Norman Adams, Roy Want, Workshop on Mobile Computing, Dec 94, Santa Cruz

"The Active Badge Location System", Roy Want, Andy Hopper, Veronica Falcao & Jon Gibbons, ACM Transactions on Office Information Systems (TOIS) Vol. 10. N0. 1, Jan 1992 Pages 91-102