



Dr. Joe McCarthy

Accenture Technology Labs
3773 Willow Road
Northbrook, IL 60062
USA

Web: www.accenture.com/xd/xd.asp?it=enWeb&xd=services\technology\people\Joseph_F_McCarthy.xml
E-mail: mccarthy@cstar.accenture.com

Biography

Joe McCarthy is a Senior Researcher with Accenture Technology Labs, where he has been exploring answers to the following question: how can technology help to create, maintain and enhance relationships in the real world? While many researchers are developing technology to support distributed groups and relationships in the virtual world, Joe is more interested in exploring how technology can help support physically co-located groups. In particular, he is investigating how such support can be provided by an active environment: a physical space that can sense and respond appropriately to the people and activities taking place within it.

Prior to joining Accenture in 1996, he was a member of the faculty at the University of Hartford and spent a number of years as an independent consultant. Joe holds a Ph.D. in Computer Science from the University of Massachusetts, an M.S. in Computer Science from RPI, and a B.A. in Philosophy from Ripon College.

Research Interests

The following is a brief description of three of Joe's projects relating to ubiquitous computing:

Ubiquitous Peripheral Displays (UniCast, GroupCast, OutCast): An exploration of a future where video displays will be everywhere, permeating all of our environments, at home, at work, or in public spaces with a special focus on what kinds of content are appropriate in what kinds of contexts.

PocketWatch Tools (PocketWatch, ActiveMap, EventManager): A suite of tools for creating greater awareness of the location and activities of colleagues within a workgroup, with an aim to provide more opportunities for the kind of informal communication that is increasingly crucial to the success of project- and team-oriented work.

MusicFX: A fitness center environment that knows who is working out, what they like to listen to, and dynamically adjusts the music to best suit the group of exercisers at any given time.

See also: www.accenture.com/xd/xd.asp?it=enWeb&xd=services\technology\people\Joseph_F_McCarthy.xml

Recent Publications

McCarthy, Joseph F., Tony J. Costa, Edy S. Liongosari. *UniCast, OutCast & GroupCast: Three Steps toward Ubiquitous Peripheral Displays*. To appear in UBICOMP 2001, Atlanta.

McCarthy, Joseph F. *Active Environments: Sensing and Responding to Groups of People*. *Journal of Personal and Ubiquitous Computing* 5(1):75-77.

McCarthy, Joseph F., Theodore D. Anagnost. *EventManager: Support for the Peripheral Awareness of Events*. In Peter Thomas, Hans W. Gellersen (Eds.) *Handheld and Ubiquitous Computing. Proceedings of the Second International Symposium (HUC 2000)*, Bristol, UK, September 2000. *Lecture Notes in Computer Science*, Vol. 1927, Springer-Verlag, Heidelberg, pp.227-235.

McCarthy, Joseph F., Eric S. Meidel. *ActiveMap: A Visualization Tool for Location Awareness to Support Informal Interactions*. In Hans W. Gellersen (Ed.) *Hand-held and Ubiquitous Computing. Proceedings of the First International Symposium (HUC '99)*, Karlsruhe, Germany, September 1999. *Lecture Notes in Computer Science*, Vol. 1707, Springer-Verlag, Heidelberg, pp. 158-170.

McCarthy, Joseph F., Theodore D. Anagnost. *MusicFX: An Arbiter of Group Preferences for Computer Supported Collaborative Workouts*. In *Proceedings of the ACM 1998 Conference on Computer Supported Cooperative Work (CSCW '98)*, Seattle, pp. 363-372.