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Biography

Lars Erik Holmquist is founder of the PLAY research group in Gothenburg, Sweden. The group was founded at the Viktoria Institute but is now part of the Interactive Institute, a national research institute in interaction design and new media. Lars Erik Holmquist received his master's degree in Computer Science in 1996 and his Ph.D. in Informatics in 2000, both at Gothenburg University. He has led many research projects in topics such as mobile communication services, user interface design, and information visualization. He has published extensively on the topics of novel human-computer interaction and ubiquitous computing, and is the general chair for the UbiComp 2002 conference.

Research Interests

I am interested in novel user interfaces for ubiquitous computing, such as physical user interfaces, ambient information displays, etc. I have also worked with information visualisation, in particular for hand-held devices. Right now my main interest is in combining some aspects of information visualization and ambient media with emerging display technologies such as color-changing materials. This approach was demonstrated recently at the SIG-GRAPH 2001 conference. There, we used computer graphics projections as a sort of "dynamic paintings" to show various types of information in the style of various modern artists. For instance, an abstract composition reminiscent of the painter Mondrian was in fact a display of the weather conditions in six different cities. We also showed some preliminary experiments with using color-changing textiles as a computer graphics display.

Some Relevant Publications

Holmquist, L.E., Falk J. and Wigström, J. (1999) *Supporting Group Collaboration with Inter-Personal Awareness Devices.* Journal of Personal Technologies, 3(1-2), Springer.

Holmquist, L.E., Redström J. and Ljungstrand, P. (1999) *Token-Based Access to Digital Information.* Proc. First International Symposium on Handheld and Ubiquitous Computing (HUC) '99, Springer Verlag.

Björk, S., Holmquist, L.E., Redström, J., Bretan, I., Danielsson, R., Karlgren, J. and Franzén, K. (1999) *WEST: A Web Browser for Small Terminals.* Proc. ACM Conference on User Interface Software and Technology (UIST) '99, ACM Press.

Skog, T., Holmquist, L.E., Hallnäs, L. and Redström, J. (2001) *Informative Art.* Emerging Technologies presentation at SIGGRAPH 2001, Los Angeles, USA.

Holmquist, L.E. and Melin, L. (2001) *Using Color-Changing Textiles as a Computer Graphics Display.* In Abstracts and Applications of SIGGRAPH 2001, Los Angeles, USA, ACM Press.