

Curriculum Vitae

Charlotte Magnusson

Date of birth: December 13, 1961

Charlotte Magnusson, Associate Professor (Docent), PhD, MSc Engineering Physics, Certec, Department of Design Sciences, Lund University. Charlotte has currently two particular areas of interest. The first is concerned with non-visual interaction design and how use of other senses than the visual can be used in applications and services. The second is design and design methodology for persons with and without disabilities. Charlotte is also an experienced programmer, with particular experience from interactive multimodal applications.

When Charlotte started working at Certec in 1993 her work was centered around the needs of people with cognitive impairments and the possibilities offered by artificial intelligence (AI) and other advanced computer technologies in this context – and how knowledge based systems/expert systems may be used and developed in areas where the knowledge is mostly so-called soft or tacit knowledge. Since 2001 her area of interest has shifted more towards HMI (human – machine interaction) and in particular towards non-visual interaction design. Charlotte has been a member of six PhD examination boards – four in Sweden (two at Lund University, one at Chalmers and one at KTH), one in Italy (Verona University) and one in Belgium (Hasselt University). She was the opponent at the dissertation of Yingying Huang at KTH, Sweden (2010). Charlotte also acts as a reviewer for several journals and conferences within the haptics/HCI field.

Charlotte was the project manager for the Svarne Project from 1993 until its completion in 1997. In 2001, she was responsible for Certec's participation in ENORASI, a European Union project. She has also been responsible for a number of small to medium sized projects, such as the Social Simulator project or the "Projekt haptik och trafik". Recently she has been responsible for the Department of Design Sciences' participation in the European Network of Excellence ENACTIVE, in the integrated project ENABLED and the STREP MICOLE. She was project leader for the national project NIVINAVI. She was the coordinator of the integrated project HaptiMap (EU). In addition to this she participated in the national project HIPPP. She is currently responsible for the department participation in the AAL (ambient assistive daily living) project NavMem.

At NordiCHI 2008 (Lund, Sweden) Charlotte was the short paper chair. She has co-organized the workshops: Observing the Mobile User Experience, <http://omue10.offis.de/>, workshop at NordiCHI 2010 October 16 - 20, 2010 Reykjavik, Iceland, <http://www.yourhost.is/nordichi2010>. Using Audio and Haptics for Delivering Spatial Information via Mobile Devices, MobileHCI 2010, Tuesday, September 7, 2010, Lisbon, Portugal, <http://www.haptimap.org/events/organized-events/mobilehci.html>, Multimodal Location Based Techniques for Extreme Navigation, Pervasive, 17 May 2010, <http://www.pervasive2010.org/> <http://www.haptimap.org/events/organized-events/pervasive.html>. Guidelines for Haptic Lo-Fi Prototyping, Lund, Sweden, 19 Nov. 2008, <http://www.nordichi2008.org/> and Non-visual interaction in mobile/location based games, <http://elbes.eu/>. 2012 she chaired the HAID 2012 international workshop (www.haid.ws). In addition Charlotte is a member of the Swedish Braille authority, and ISO/TC 159/SC 4/WG 9 (Tactile Haptic Interaction).

Selected recent publications

- The Time Machine – an Inclusive Tourist Guide Application Supporting Exploration, Rasmus-Gröhn, K., Szymczak, D., Magnusson, C, 8th International Workshop on Haptic and Audio Interaction Design, Daejeon, Korea, 18-19 April 2013
- A real-world study of an audio-tactile tourist guide, Szymczak, D., Rasmus-Gröhn, K., Magnusson, C, Hedvall, P-O, In Proceedings of the 14th international conference on Human-computer interaction with mobile devices and services. 2012 (MobileHCI '12). ACM, New York, NY, USA, 335-344
- Guiding tourists through haptic interaction: vibration feedback in the Lund Time Machine, Szymczak, D., Magnusson, C., Rasmus-Gröhn, K., EuroHaptics 2012, Tampere, Finland, June 12-15, 2012
- Navigating the world and learning to like it - mobility training through a pervasive game Magnusson, C., Waern, A., Rasmus-Gröhn, K., Bjernryd, Å., Bernhardsson, H., Jakobsson, A., Salo, J., Wallon, M., Hedvall, P. O., Accepted for presentation at MobileHCI 2011, Stockholm, Sweden.
- Navigation by pointing to GPS locations
Magnusson, C., Rasmus-Gröhn, K., Szymczak, D.
to be published in Personal and Ubiquitous Computing special issue on extreme navigation
- User and context centred design methodology for location based services
Magnusson, C., Anastassova, M., Tollmar, K.
Workshop on Methods and Techniques of Use, User and Usability Research in Geo-information Processing and Dissemination, Tuesday 13 April 2010 at University College London
- Pointing for non-visual orientation and navigation
Magnusson, C., Molina, M., Rasmus-Gröhn, K., Szymczak, D.
NordiCHI 2010, October 16 - 20, 2010, Reykjavik, Iceland
- Soundcrumbs – Hansel and Gretel in the 21st century, Magnusson, C., Breidegard, B., Rasmus-Gröhn, K., Accepted for poster presentation at HAID 09 (4th International Workshop, Haptic and Audio Interaction Design), 10-11 September, 2009, Dresden, Germany.
- The Mobile Oracle – A Tool for Early User Involvement, Magnusson, C., Anastassova, M., Tollmar, K., Pielot, M., Rasmus-Gröhn, K., Roselier, S., MobileHCI 2009, 15-18 September, 2009, Bonn, Germany.
- Exploring User Requirements for Non-visual Mobile Navigation Systems, Magnusson, C., Rasmus-Gröhn, K., Tollmar, K., Stigmar, H., Interact 2009, Uppsala, Sweden.
- Enhancing accessibility in mobile navigation services Rasmus-Gröhn, K., Magnusson, C. Proceedings of AAATE 09, Florence, Italy, 2009.
- Exploring Future Challenges for Haptic, Audio and Visual Interfaces for Mobile Maps and Location Based Services Magnusson, C., Brewster, S., Sarjakoski, T., Roselier, S., Sarjakoski, L.T., Tollmar, K. LocWeb '09 Workshop, CHI 2009, April 4-9, 2009, Boston, MA, USA.

More of Charlotte's publications can be found at:

<http://www.lu.se/lucat/user/49a5b8bbcb749bd88d3a057f66f7d02b>