HumanIT is a multi-disciplinary research centre at Karlstad University, Faculty of Economy, Communication and IT. The research centre aims at reinforcing research on IT from a user perspective through cooperation between different researchers, but also in close cooperation with the industry and the public sector.

Profile Areas

During the year HumanIT discerned two profiles in the HumanIT research at the faculty;
1) ICT for Development
2) Surveillance and Integrity in Information Society

HumanIT has begun to look into the possibilities for a third profile area: ICT for Emergency Management and Crisis Communication. Many stakeholders from both authorities and the private sectors have been involved. Especially a cooperation has been established with the Centre for Climate and Security at Karlstad University. Continuous meetings with the director, Lars Nygren and the coordinator Emelie Hindersson have been taking place. A networking lunch meeting where stakeholders from businesses in the region (TeliaSonera & Studio01), and from the public sector (Defence University, Swedish Civil Contingencies Agency and the Rescue Department) participated together with interested researchers at Karlstad University. Göran Frödin has been/is carrying out individual meetings with all the stakeholders in order to discern the lowest common denominator to gather around for a potential research project. The work will thus continue 2011 and the aim is be apply money for at least one project.

Research

PhD Students

During 2010 HumanIT has financed two PhD students, one within each research profile. Within research profile 2 Frank van Geelkerken was chosen, employed at the department of Law at Karlstad University. The department of law has no formal right to examine Ph D students yet, hence a cooperation with Stockholm University has been initiated where Frank is admitted as a PhD student. Ilkin Mehrabov was chosen within research profile 1, employed and admitted at the department of Media and Communication studies at Karlstad University. In coherence with HumanITs multidisciplinary character, the supervision of the PhD students will be shared between supervisors from different departments.
**Conferences**
During the year HumanIT organized a conference within profile area 1. The second international conference on mobile technology for development (M4D2010) took place in Kampala, Uganda, organized by HumanIT in cooperation with the faculty for Computing and Informatics Technology at Makere University in Kampala. The conference is unique, highlighting how technology can be used for development in a user perspective. HumanIT is hence established as a leading centre for developing the research field of M4D among academics and practitioners around the world. On the conference, which had both a research and a practitioners track, contacts were made with both voluntary organizations, aid agencies and companies working in the field of mobile technology for development. HumanIT sponsored participation for two participants from developing countries (Dr. Vikas Kumar, India and Dr. Abul Kashem, Bangladesh). See the conference webpage [http://m4d.humanit.org](http://m4d.humanit.org) for full information on participants, proceedings and related activities. The research within M4D aims at utilizing mobile technology, not only for companies but also voluntary- and aid agencies.

**Summer school**
Within research area 2 and within the framework of PrimeLife (Privacy and Identity Management for Life) and IFIP (International Federation for Information Processing) the sixth summer school was organized in Helsingborg, 2-6 of August 2010, in cooperation with EU / FP ETICA (Ethical Issues of Emerging ICT Applications). The topic for the summer school was "Privacy and Identity Management for Emerging Internet Applications throughout a Person's Lifetime". Main responsible for the summer school was professor Simone Fischer-Hübner from Karlstad University and HumanIT.

**IPID**
The IPID (International network for Postgraduate students in ICT4D, see www.ipid.se) activities at Karlstad University were during 2010 managed through HumanIT by Gudrun Wicander, one of the founders and leading characters in the network. Today more than 900 students has registered, representing more than 300 universities in 75 countries. The year the fifth annual IPID symposium was hosted by Open University of Catalonia, Barcelona, Spain. IPID arranged pre-conference activities for IPID members at the M4D 2010 Conference in Kampala (see above) and IPID was arranged a PhD-symposium for one day within the ICTD2010 conference at Royal Holloway in London. IPID has been allocated money from SPIDER during the year, one 1-year project ending in June and one 6-month project for the autumn 2010.

**Eye-tracking**
Maria Lindström and Lennart Molin were allocated money from the KK-foundation for a seven months establishment project entitled "Methodology development for Eye-Tracking". The purpose with this project is to prepare for an application for a larger implementation project.
where the researchers aim to work with two companies, the web agency Two in Karlstad and Tobii in Stockholm. Tobii is one of the leading suppliers of equipment for eye-tracking. One question to look into is how eye-tracking can be used when developing mobile interfaces. Eye-tracking has been demonstrated for the students at the Ålvkullen high school in connection to an information day that the University organized in the autumn of 2010.

**Projects within Media and Communication Studies**

Within the department for Media and Communication Studies Jakob Svensson was allocated money from the Lars Hierta Memorial Foundation for studying social media in the 2010 elections. Dan Åkerlund was allocated money from the Internet Fund to study social media in the classroom. Since before the projects "Secure Spaces: Media, Consumption and Social Surveillance with funds from Riksbankens Jubileumsfond (Jubilee Fund) and the project "Rural Networking/Notworking the Rural” with support from FORMAS, both led by professor André Jansson. Michael Karlsson is supported from Swedish Civil Contingencies Agency and the Rescue Department (MSB) for studying net journalism in crisis situations and he has a project on the Network funded by Riksbankens Jubileumsfond. Jakob Svensson’s project "E-participation and I-citizens” is supported from the Wahlgrenska foundation. Ulf Buskqvist and Lennart Molin (from the Information Systems department) work with a project to tie research on ICT to the teachers training program. Mia Lövheim finished her post-doc "Young Women’s values in mediated stories on the internet” at Oslo University. Malin Svenningsson finished her project on gender and intersectionality in computer gaming, funded by the Swedish Research Council.

**Living Lab**

Compare test lab and Karlstad University (Computer Science and CTF –Service research Center) became part of a Living Lab project 2010. The aim of the project is to build on and improve already existing Living Labs, generate knowledge and innovation of new services, media and infrastructure, especially within the area of ICT, in Living Lab in three Nordic countries (Karlstad, Sweden; Stavanger, Norway and Aalborg, Denmark).

**HOT Mesh**

Deutsche Telekom laboratories will finance a 1-year project "Extending a Hot-Spot Infrastructure using Load-balanced Mesh networks - HOT Mesh”. The project is a continuation of successful co-operations between Karlstad University and Deutsche Telekom. Research Coordinator is professor Andreas Kassler, and his PhD student Peter Dely is also tied to the project.

**KK- grants**

HumanIT research project “Usable privacy protecting identity management for smart applications” has been allocated money from the KK foundation (Knowledge and skills development). Research
coordinator is professor Simone Fischer-Hübner and researchers from Computer Science, Informatics and Psychology participated together with Gemalto and Nordea.

**Google Research Award**

Simone Fischer-Hübner was awarded a Google Research Prize of 80 000 USD (575 000 SEK). The money will be used for research on user-friendly interface to enhance personal privacy on the web.

Last in the report we will list publications during the year where HumanIT researchers has been involved.

**Seminars and Education**

**Seminar Series**

During autumn 2010 HumanIT started two seminar series, one within each research profile. Two seminar where organized. The newly admitted HumanIT PhD candidate Frank van Geelkerken presented his research background and thesis proposal on the first seminar on Privacy and Surveillance in Information Society the 27th of October. The 12th of December Jakob Svensson and Gudrun Wicander presented the first seminar on ICT for Development. The seminar dealt with the M4D2010 conference earlier that autumn and the emerging field of Mobile Technology for Development.

**MFS Scholarships**

HumanIT has during the year handed out three travel grants for MFS (Minor Field Studies) for Bachelors and Master students to travel to a developing country to study the use of ICTs there. The travel grants should form the basis for a Master or a Bachelor thesis at Karlstad University. These scholarships have been made possible with the support of SIDA (the National Swedish Aid Agency) and SPIDER (the branch within SIDA dealing with ICT4D). The awarded students were Leif Andersson, Lingxiao Dai och Joice Tolentino, all students at the department of Media and Communication Studies.

**Indian Internships**

HumanIT received and catered accommodation and living costs for four Indian interns to come to Karlstad University within the framework of HumanITs agreement with IIT-Guwahati. The four students were Ankit Bhatnagar, Vinay Kumar, Druga Prasad and Shamik Ray, all working in projects within Computer Science and Informatics. Their presentation can be accessed at [http://www.slideshare.net/lilltrasan/indian-internship-at-humanit](http://www.slideshare.net/lilltrasan/indian-internship-at-humanit). Druga Prasad participated to a paper he himself had the honour to present after new years at a conference in Bangalore.

Cooperation

Besides all the cooperation the above listed research and education projects has resulted in, HumanIT has also during the year also especially meet with representatives for Compare (Competence Area ICT Karlstad) to strengthen the cooperation with them. In the newly adopted statutes for HumanIT (that will be applicable from March 2011) one seat will be reserved for Compare within the board. HumanIT also participated in Compare’s 10-year anniversary, both with a showcase in their anniversary fair in the Karlstad harbour.

HumanIT also participated in Värmland Chamber of Commerce business trip on the Baltic Sea, 21-22 of March. HumanIT was part of the Faculty showcase but also took own contacts with participating companies and organizations. For this purpose a folder was printed with both Swedish and English text that has been distributed throughout the year. HumanIT was also invited to one of Rotary Solstaden meetings.

HumanIT was invited to speak at the third annual meeting of the ICT & Society’s network in Barcleona. After this meeting HumanIT was also invited to the IT University of Copenhagen to present the research at the Centre at a lunch seminar there.

HumanIT has also participated in a popular scientific lecture within the framework of the university’s seminar series on sustainable development.

Organization and Information Management

During the working year of 2010, HumanIT has clarified its organization of and work in the Research Centre through proposing new statutes to the Rector and produce new routines for the daily work within the centre that will be applicable from the 2011-working year. During the year the composition of the board has been discussed. Compare’s Mikael Lundström and Göran Österman (substitute) has been invited as well as Charu Uppal from Media and Communication Studies. Bernt Ericsson and Ulrika Obstfelder Peterson have left the board. Concerning the new routines, annual plans and reports will be produced from the 2010-working year. It has been
decided that the working year will start in March. From the 2011 working year a university internal steering group will have preparatory meetings before the board meetings.

During the working year seven board meetings were held (11 March, 11 May, 18 June, 25 August, 30 September, 25 November & 13 January (2011)).

During the year a new website has been put in place [www.kau.se/humanit](http://www.kau.se/humanit). Today the website only exist in English, but the goal is that the website will be bilingual. News are managed through the e-mail list. To this list a Twitter account has been activated [www.twitter.com/Centre4HumanIT](http://www.twitter.com/Centre4HumanIT) for easier handling of news updates on the website and news broadcasting to those interested following HumanIT on Twitter. In February 2011 91 twitter accounts followed HumanIT. HumanIT has also a facebook group [www.facebook.com/home.php#!/group.php?gid=102738079772690](http://www.facebook.com/home.php#!/group.php?gid=102738079772690) where facebook users can follow what is happening in HumanIT. In February 2011 HumanIT had 59 members of the facebook group.

**List of Publications 2010**

Publications with HumanIT researchers involved during 2010, sorted after the first authors surname. This information is collected from the Karlstad University Research database


- **M. C. Castro, L. Galluccio, A. Kassler and C. Rametta**. Opportunistic P2P Communications in Delay Tolerant Rural Scenarios 2010. Published in: *EURASIP Journal on Wireless Communications and Networking*


M. Christensen. Online Social Media, Communicative Practice and Complicit Surveillance in Transnational Contexts: - The Case of the Turkish Diaspora in Sweden. 2010. Published in: International Communication Association


C. Clerwall & M. Karlsson. The Emergence of Convergence in Swedish Online News. 2010. Published in: ECREA


S. Fischer-Hübner: The Conflict between Privacy and Digital Forensics. 2010. Published in: Wirtschafts- und Finanzstrafrecht in der Praxis


A. Jansson: Mediatization, Spatial Coherence and Social Sustainability: The Role of Digital Media Networks in a Swedish Countryside Community. 2010. Published in: Culture Unbound: Journal of Current Cultural Research

A. Jansson: Integritetsrisk och nya medier. 2010. Published in: Nordiskt lys. SOM-rapport, No 50


M. Karlsson. The Unceasing Reframing of the Swine Flu - Immediacy of online news, Crisis communication and Swedish online media coverage of outbreak of the Swine flu. 2010. Published in: ECREA 2010.


T. T. Luong, B. S. Lee, C. K. Yeo & A. Kassler - Efficient Channel Assignment and Routing Protocol for Multiple Channels Multiple Interfaces Wireless Mesh Network, 2010. Published in: IFIP Wireless Days, October 2010, Venice, Italy

M. Magnusson - Ordinary Users and Creativity: Fostering Radical or Incremental Innovation?, 2010. Published in: in. Frank Piller and M. Mitchell Tseng (eds.), Handbook of research in mass customization and personalization


J. Svensson: E-Democracy From Above. 2010. Published in: ECREA.


G. Wicander: M4D Overview 1.0: the 2009 Introduction to Mobile for Development. 2010.


2010. Published in: 11th Joint IFIP TC6 and TC11 Conference on Communications and Multimedia Security (CMS'2010)

G. Zhang & S. Berthold - Hidden VoIP Calling Records from Networking Intermediaries

G. Zhang & S. Fischer-Hübner - Peer-to-Peer VoIP Communications Using Anonymisation Overlay Networks
2010. Published in: 11th Joint IFIP TC6 and TC11 Conference on Communications and Multimedia Security (CMS'2010)

D. Åkerlund, U. Buskqvist & A. B. Enochsson - Understanding learning design when the classroom goes online
2010. Published in: Designs for Learning