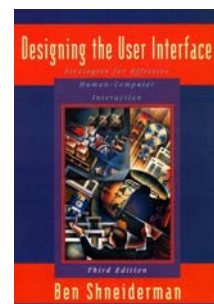


Medieninformatik-Treffen an der Ludwig-Maximilians-Universität München

Samstag, 5. November 2005 im AudiMax der LMU
die Veranstaltung ist öffentlich und der Eintritt ist frei

Programm (Die Vorträge sind in englischer Sprache):

16:00	Begrüßung und Einführung
16:15	Eingeladener Vortrag von Andreas Holzinger , Medical University Graz zum Thema: Challenges in pervasive e-Education
16:45	Hauptvortrag von Ben Shneiderman , University of Maryland Leonardo's Laptop: Human Needs and the New Computing Technologies
17:45	Pause
18:15	Vorstellung der Poster und Demonstratoren (60-Sekunden Präsentationen von Studenten und Mitarbeitern zu Themen aus der Medieninformatik)
19:00	Ausgewählte Videos und Spiele die von Studenten erstellt wurden
19:10	Poster und Demonstratoren (Fortsetzung)
20:00	Ende



**Leonardo's Laptop:
Human Needs and the New Computing Technologies**
<http://mitpress.mit.edu/leonardoslaptop>

Winner of IEEE book award for
"Distinguished Literary Contribution furthering Public Understanding of the Profession"

Ben Shneiderman (ben@cs.umd.edu), University of Maryland

The old computing was about what computers could do;
the new computing is about what people can do.

To accelerate the shift from the old to the new computing designers need to:

- 1) reduce computer user frustration.
- 2) promote universal usability.
- 3) envision a future in which human needs more directly shape technology evolution.

Leonardo da Vinci could help as an inspirational muse for the new computing. His example could push designers to improve quality through scientific study and more elegant visual design. Leonardo's example can guide us to the new computing, which emphasizes empowerment, creativity, and collaboration. Information visualization tools such as treemaps (www.smartmoney.com/marketmap) (www.hivegroup.com), Spotfire (www.spotfire.com) and TimeSearcher (www.cs.umd.edu/hcil/timesearcher) will be demonstrated. Similarly, personal photo interfaces will be shown: PhotoMesa (www.cs.umd.edu/hcil/photomesa) and PhotoFinder (www.cs.umd.edu/hcil/photolib).

For more:

<http://mitpress.mit.edu/leonardoslaptop>

<http://www.cs.umd.edu/hcil/newcomputing>

BEN SHNEIDERMAN is a Professor in the Department of Computer Science Founding Director (1983-2000) of the Human-Computer Interaction Laboratory (<http://www.cs.umd.edu/hcil/>), and Member of the Institutes for Advanced Computer Studies & for Systems Research, all at the University of Maryland at College Park . He was elected as a Fellow of the Association for Computing (ACM) in 1997 and a Fellow of the American Association for the Advancement of Science (AAAS) in 2001. He received the ACM SIGCHI Lifetime Achievement Award in 2001.

Ben is the author of "Software Psychology: Human Factors in Computer and Information Systems" (1980) and "Designing the User Interface: Strategies for Effective Human-Computer Interaction" (4th ed. 2004) <http://www.awl.com/DTUI/> . He pioneered the highlighted textual link in 1983, and it became part of Hyperties, a precursor to the web. His move into information visualization helped spawn the successful company Spotfire <http://www.spotfire.com/> . With S. Card and J. Mackinlay, he co-authored "Readings in Information Visualization: Using Vision to Think" (1999). "Leonardo's Laptop" (MIT Press) appeared in October 2002, and his new book with B. Bederson, "The Craft of Information Visualization" was published in April 2003.

Challenges in pervasive e-Education

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Abstract :

Pervasive e-Education is a challenging way to assist life long learning. Research in this area must consider the whole educational process including the new culture of learning which new media brings, consequently, analysis of psychological aspects of educational processes must be considered on three levels: Macro-, meso- and microlevel. This includes questions of effectivity and efficiency (cost-benefit ratio) which can be subsumed under the terminus added value. Here, the interdisciplinary bridge between Psychology and Informatics is a necessity, due to the fact that not only research, but also development must be carried out together. However, pervasive e-Education requires a totally new media perspective on Learning Objects; instead of viewing handhelds or smart phones as minimized PCs they should be seen from the perspective of the notion of learning objects as active semiotics. However, whichever perspective you take into account, pervasive e-Education requires a complete independence of location which is more than just being mobile. Text, audio, image, video on Desktop, Tablet PC, TV, iTV, PDA, iPod etc. each and every medium and terminal has individual pro and cons. Consequently, Learning Objects must be adaptable for any device: This is the core idea of Chameleon Learning Objects (CaLOs). However, good LOs must fulfill more than just technical characteristics. The LOs must be adjusted to the needs and requirements of the learners: They must correspond to a model of psychological learning and motivation including cognitive style, learning strategy and most of all preliminary knowledge. Consequently the CaLOs must follow a triple adaptation model (location, device and end-user). CaLOs gain information on end-user behavior through the evaluation of pre-knowledge questions and self evaluation questions.

Biographical Information:

Holzinger was Visiting Professor at Innsbruck University, Institute for Organization and Learning (IOL) in winter term 2004/05 and is Visiting Professor at Vienna University of Technology, Institute for Software Technology and Interactive Systems (IFS) in Winter term 2005/06. Holzinger is Consultant for the Austrian and German Ministry of Science, National expert and IST evaluator in the European Commission (EC), Industrial Consultant, member of the International Federation of Information Processing (IFIP) WG 13 (HCI) and member of the European Research Consortium in Informatics and Mathematics (ERCIM) Working Group User Interfaces for All (UI4ALL). He is elected chair of the WG HCI&UE of the Austrian Computer Society. More Information: <http://www.basiswissen-multimedia.at> (click on Holzinger Home).

Weitere Informationen: <http://www.hcilab.org/events/mmii.htm>

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