



OESTERREICHISCHE
COMPUTER GESELLSCHAFT
AUSTRIAN
COMPUTER SOCIETY



Medical University of Graz

*** Call for Papers ***

In order to further promote the collaboration between Psychology and Computer Science (Informatics), we are inviting your contribution to the USAB 07.

USAB 2007 - Usability & HCI for Medicine and Health Care
3rd Symposium of the Austrian Computer Society, WG HCI&UE
NOVEMBER 22, 2007, Graz, Austria

<http://www.meduni-graz.at/imi/usab-symposium>

Mission Statement: Together Today, combining Data, Information and Knowledge, to support the work of the Medical Professionals of tomorrow!

Technological performance increases exponentially and Medical Information Systems and Decision Support Systems are extremely sophisticated. However, **human cognitive performance does not advance at the same speed.**

Information systems are a central component of modern knowledge-based Medicine and Health services. However, Information technology must make Knowledge Management possible and support all medical staff in their daily work.

Consequently, the focus on interaction and communication between human and computer is of increasing importance.

Traditionally, Human-Computer Interaction (HCI) bridges Psychology and Informatics, while Usability Engineering (UE), as an engineering discipline, is firmly anchored in software technology and guarantees a solid technological implementation.

Together, **HCI&UE** provide the emerging potential to **assist the daily workflows** in the realm of medicine and health care. Innovation and new developments often take place just at the junction of two or more disciplines.

We are seeking high quality papers, which will be reviewed by at least three independent reviewers. Accepted contributions will be published by Springer in their series: Lecture Notes in Computer Science (LNCS).



Topics include (but are not limited to):

- Medical Usability and new Methodologies
- Formal Methods and Methodologies (incl. Agile Methods)
- Human–Computer Interaction in Health Care
- Usability of Medical Information Systems
- Human Aspects of Future Technologies in Health Care
- Semantic Usability in Medicine and Health Care
- Human Language Analysis and Natural Language Processing
- Usability of Ontologies in the Medical Domain
- Usage and Utility of Medical Terminology
- Usability and Human Aspects of Medical Informatics and Software Solutions
- Aspects of Usability in Information Visualization for Medicine and Health Care
- Usability in Ambient Assisted Living and Life Long Learning
- Usability Aspects of Artificial Intelligence in Medicine and Health Care
- Augmented Cognition (AugCog) in medical workflows
- Problem Solving Support in medical tasks
- Adaptivity and Usability of Medical Decision Support Systems (DSS)
- Usability of Mobile, Pervasive and Ubiquitous Computing for Medicine
- Simulations in Medicine
- Adaptive Interfaces for Medical Information Systems
- Log File Analysis in Health Care
- User-Centered Design & Development Methods in Medicine and Health Care
- Real-Life Usability Testing in the Hospital
- Cognitive Task Analysis and Optimization of medical Workflows
- Special Track: Cognitive Load and Performance Support in medical workflows

Program Committee (in alphabetical order)

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Martin HOELLER, Student
Andreas HOLZINGER, Med. Uni Graz (Chair)
Sandra LEITNER, Austrian Computer Society
Gig SEARLE, Med. Uni Graz
Elisabeth WALDBAUER, Austrian Computer Society

Important Dates:

Monday, 9 th July 2007	Deadline for submissions of long papers
Wednesday, 1 st August 2007	Deadline for submissions of short papers and posters
Monday, 17 th September 2007	Camera-ready due
Tuesday, 20 th November 2007 Wednesday, 21 st November 2007	Workshops, Tutorials, Workgroup Meetings
Thursday, 22nd November 2007	Symposium

Website for further information

<http://www.meduni-graz.at/imi/usab-symposium/>

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