



12th International Conference on Computers Helping People with Special Needs

July 14 – 16, 2010
Vienna University of Technology, Austria

Pre-Conference
July 12 – 13, 2010

www.icchp.org

Please reply not later than February 1, 2010!



welcome

The 12th International Conference on Computers Helping People with Special Needs will be held at the Vienna University of Technology in July 2010.

Over the last decades the advancements in Assistive Technologies (AT) and Information and Communication Technologies (ICT) have significantly influenced the life of people with disabilities.

Changes in awareness and understanding of disability as well as social and legal frameworks, driven by Disability Rights and Independent Living Movements, led to what is known as eAccessibility, Universal Design and eInclusion.

The more ICT and AT increase, people with disabilities are enabled to take part in almost any area of life, and eInclusion and eAccessibility become a common responsibility of mainstream ICT development.

ICCHP summarised this process in the equation “equality = eQuality”. “Equality”, equal access and, therefore, equal chances in society are dependent on “eQuality”, the quality of systems and services in taking the needs of all users into account including those with disabilities. *Interfacing the existing and emerging Human-Computer Interface* is and will stay a key issue.

The progress is remarkable. ICCHP 2010 wants to highlight this progress as well as achievements and plot a R&D-roadmap towards such challenges, which will ensure even higher product and service usability. User involvement and user centred design are the underlying general topics of ICCHP leading to an interdisciplinary discussion of all stakeholders in the value chain that allows *social innovation* in the information society.

All this future oriented work must not make us forget the work in the past. ICCHP 2010 will emphasise on the history in AT to value the work done, to avoid re-inventing the wheel and to learn from successes but also failures of our ancestors. This should lead to implementation of existing knowledge in new contexts.

ICCHP once more will be the platform for such a holistic approach to ICT/AT innovation to increase the quality of life of people with disabilities.

Come and get involved!

The International Programme and Organising Committee

ICCHP, by its nature, has a wide area of topics and a future oriented mission. The following list, therefore, is not exhaustive and should motivate to get involved:

- (e)Accessibility & Usability** discusses possibilities to overcome and avoid barriers for people with disabilities in existing and evolving ICT and consumer electronics.
- (e)Aging and Gerontechnology** presents innovative systems for helping elderly people to maintain their autonomy. How such systems can be designed for persons who are not familiar with technologies is part of this topic, too.
- Assessment and Profiling** proposes methodological approaches for anticipating or evaluating the impact of ICT/AT. It also discusses concepts and techniques for evaluating capabilities and needs of individuals.
- Ambient and Assisted Living** will discuss the potential, accessibility and usability of emerging technologies, e.g. embedded systems, smart homes, intelligent interfaces, mobile computing.
- Assistive Technology** focuses on increasing the quality and availability of assistive devices for independent living, communication and inclusion.
- Augmented and Alternative Communication (AAC)** intends to include progress in traditional methods of helping people who don't communicate by speech or writing but benefit from new approaches like "silent speech".
- Design for All** highlights the role of ICT/AT for a more free and open access to society, e.g. architecture, traffic, housing, public buildings, work place, information, education.
- eGovernment** highlights the eAccessibility of Internet based services.
- eHealth - Medicine and Care** encourages synergetic aspects of ICT/AT for diagnostics, care, therapy, training and rehabilitation.
- eInclusion, Policies and Legislation** supports the discussion of legal, organisational and structural contexts, possibilities of funding and evaluation programmes for experiments and models at a global and national level.

eLearning - special and/or inclusive – illustrates new dimensions opened by ICT/AT for didactic and methodological settings. The qualification and the training of people involved in these pedagogical, psychological and social fields have to correspond to these demands.

HCI and Non Classical Interfaces will explore aspects of accessibility and the potential of emerging developments in Human-Computer Interaction like sensor based interaction, virtual environments, wearable computing, sensor based interfaces, user interface automation and adaptive interfaces.

History in AT gives a special focus on the founders of our discipline. Only fields with a history may have a future. By giving attention to the excellent work of researchers in our field we should avoid reinventing the wheels. Or, as Sir Isaac Newton put it after Bernard of Chartres (1130): “Pigmaei gigantum humeris impositi plusquam ipsi gigantes vident - On the shoulders of giants also pygmies can see more than the giants themselves”.

Labour Market Integration proposes approaches ameliorating the career of people with disabilities by applying ICT/AT; possibilities to qualify users and professionals and to optimise labour market integration services are discussed.

(e)Service Delivery and Social Innovation covers all aspects (human, economical, organisational and management) involved when implementing concrete services resulting from technological innovations. ICCHP discusses ideas and concepts of *social innovation* exploring the full potential of ICT/AT.

User centred Design and User Involvement will underline the importance of involving end users in all steps of R&D towards application and will present strategies, methods and experiences for a more user driven R&D agenda.

ICCHP 2010 is open to visionary ideas and future oriented thoughts – a floor for your visions!

Full Papers and Short Papers



ICCHP publishes its proceedings in the acknowledged Springer Lecture Notes in Computer Science. Papers (8 pages) and short papers (4 pages) will be presented and discussed in time slots of 20 to 25 (papers) or 10 to 15 minutes (short papers). Authors are asked, in order to allow a fair review process, to submit well-elaborated **extended abstracts (2-4 pages) not later than February 1, 2010**. Papers will be reviewed by at least three experts and based on their judgement selected for publication. Authors should follow the instructions for preparing contributions ("extended abstracts") at:

<http://www.icchp.org/call/papers>

Information on how to prepare the camera ready version at:

<http://www.springer.de/comp/lncs/authors.html>

Registration to the conference by one author is mandatory!

Special Thematic Sessions

ICCHP '10 invites experts to organise Special Thematic Sessions (STS) to present a detailed and comprehensive view to specific topics of particular interest. An introduction by the chair as a free publication in the proceedings will recognise these efforts. Special thematic sessions must be proposed **not later than January 1, 2010**. More information at:

<http://www.icchp.org/call/sts>

Workshops, Tutorials and Seminars

The pre-conference will offer introductory workshops, seminars and tutorials. For conference participants, ICCHP provides all necessary facilities for free. Workshops, tutorials and seminars should be announced **till June 1, 2010** to:

eMail: icchp@jku.at

Young Researchers Consortium “The Next Generation of AT Experts“

During the Pre-conference a young researchers consortium will be organised. Supervisors of outstanding work (e.g. diploma, PhD thesis, practical work in companies) should invite students to get involved with the subject area of AT and inclusion. The best contributions will be presented in a plenary session of ICCHP. ICCHP will cover participation and accommodation costs. Extended abstracts on the work have to be submitted **till March 15, 2010**. More information at:

<http://www.icchp.org/call/youngresearchers>

Project Meetings, Product Presentations and Posters

ICCHP provides facilities for meetings of project consortia, associations and other organisations. Possibilities for presenting project results will be made available (e.g. exhibition space, seminars). Meetings and Project Presentations should be announced **till July 1, 2010** to:

eMail: icchp@jku.at

ICCHP Summer University 2010: Math, Science and Statistics for Visually Impaired Users

- Blind and partially sighted students (school and higher education)
- Teachers and educational experts
- Developers and researchers
- Companies

are invited to take part in a two days summer university during ICCHP to train, present, discuss and learn about possibilities to overcome problems in math, science and statistics. More information at:

<http://www.icchp.org/call/summeruniversity>

The Austrian Computer Society announces the

ROLAND WAGNER AWARD ON COMPUTERS HELPING PEOPLE WITH SPECIAL NEEDS

This biannual award in the range of 3000 € is handed over at the occasion of ICCHP conferences.

Nomination Committee

Andras Arato, KFKI Budapest, Hungary
Dominique Burger, INSERM, France
Arthur Karshmer, Florida State University at Tampa, USA
Klaus Miesenberger, University of Linz, Austria
Wolfgang Zagler, Vienna University of Technology, Austria

Who/What can be nominated

- Individuals
- Organisations (associations, consortia, companies, ...)
- Projects
- Services
- Products

Nominations are to be submitted until

June 15, 2010.

Details can be found at:

<http://www.icchp.org/award>



Key Dates

Deadline for submitting STS	January 1, 2010
Deadline for Papers / extended Abstracts	February 1, 2010
Notification of Acceptance	March 1, 2010
Preliminary Programme	March 15, 2010
Deadline for full, Camera Ready Papers	April 15, 2010
Deadline for submissions to the Young Researchers Consortium	April 15, 2010
Notification of Acceptance for the Young Researchers Consortium	May 15, 2010
Deadline for Workshops, Tutorials and Seminars	June 1, 2010
Deadline Nomination for ICCHP Award	June 15, 2010
Deadline for announcing Meetings, Presentations and Posters	July 1, 2010

Conference Fees

Author's fee (to be paid till April 1, 2010)	500 €
Early registration fee (to be paid till May 1, 2010)	500 €
General registration fee (to be paid till June 30, 2010)	550 €
On - site registration fee	600 €
One day fee (to be paid till June 30, 2010)	250 €
Student fee (not available for authors)	free

Fees (except one day and student fee) include proceedings, conference bag, social events (incl. Gala Dinner), lunch and coffee breaks.

Payment has to be made by credit card or bank transfer, only. Money transfer costs have to be fully covered by participants.

Cancellation Policy: For cancellation until June 15, 2010, we will charge a service fee of € 75. For author's fees and later cancellations no refund can be made.

Registration

An online registration form will be made available at:

<http://www.icchp.org/registration>

Conference Location

The conference takes place on the campus of the Vienna University of Technology, Austria. The university has a unique campus close to the very centre of the city. During recent renovations the building where ICCHP will take place has been adapted for accessibility.

The conference language is **English**.

Accommodation

For conference participants special arrangements have been made with the company “**NetHotels**” providing a list of hotels offering special arrangements for conference guests and in addition information on accessible hotels:

<http://www.icchp.org/accommodation>

Social Events

ICCHP is committed to provide a series of attractive and accessible social events, which will include a Welcome Party, a Gala Dinner or Reception and a Farewell Party. More information will be made available at

<http://www.icchp.org/socialEvents>

In the charming city of Vienna, ICCHP will provide agreeable and enjoyable moments to foster the international exchange. More information at

<http://www.wien.at>

<http://www.austria-tourism.at>



General ICCHP'10 Programme Chair

Murphy, H. J. Founder, Former Director and Member Advisory Board of the Centre on Disabilities, California State University, Nothridge, USA

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Suzuki, M. Kyushu University, Japan
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Wagner, R. University of Linz, Austria

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Miesenberger, K. University of Linz, Austria
Zagler, W. Vienna University of Technology, Austria

Young Researchers Consortium Chairs

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