Call for Papers

15th ICCHP
International Conference on Computers Helping People with Special Needs

July 13 – 15, 2016

Pre-Conference

July 11 - 12, 2016

Johannes Kepler University Linz

Altenbergerstr. 69

4040 Linz

Austria

https://goo.gl/maps/4LewX

http://www.icchp.org

Deadline for the Submission of Extended Abstracts:

February 1, 2016!

Organized in co-operation with:

Austrian Computer Society, Vienna, Austria

Masaryk University, Brno, Czech Republic

Institute Integriert Studieren, University of Linz, Austria

Content

Welcome

The 15th biennial International Conference on Computers Helping People with Special Needs (**ICCHP**) will be held again in Linz, Austria, its place of origin and location of the core organizing team.

ICCHP had the honor to accompany and support the revolutionary developments of Assistive Technology (AT) and eAccessibility over the last decades. It is proud to serve as a means for exchange and communication in this context. The UN Convention on the Rights of People with Disabilities (UNCRPD) is the globally accepted reference and expression of the societal transformation towards effective inclusion and participation of all people with disabilities in society. The UNCRPD refers to AT, eAccessibility, eInclusion and Design for All as precondition and means of support.

Exactly these are also the core topics of **ICCHP**. Since the first conference in Vienna (Austria) back in 1989 **ICCHP** has evolved as a unique and one of the few long term references of R&D and evidence how ICT, AT and eAccessibility have been implemented and have significantly contributed to the improvement of the life of people with disabilities. It was my pleasure to follow **ICCHP** closely for 25 years on behalf of FTB and I joined most of the **ICCHP** conferences through these years.

ICCHP provides an interdisciplinary platform and scientific forum including all sorts of stakeholders. It is remarkable that all proceedings published with Springer in their Lecture Notes in Computer Science and made available online since 2006 have reached more than 100.000 (some almost 200.000) downloads of articles. This makes **ICCHP** a well-recognized reference for our growing and expanding field.

ICCHP's mission for inclusion and participation in the information society strives for better AT for support, enhancement and restoration of resources of people with disabilities and compensating limitations of standardized HCI. This mission still gains more importance due to the ongoing ICT revolution (Internet / Web of Things / Ubiquitous computing / Cloud based services).

The ICT revolution brings along an increased potential for inclusion and participation, but also risks for exclusion and thus the responsibility for implementing eAccessibility. It provokes a growing number of challenging research questions. Old boundaries of concepts dissolve, new approaches and fresh thinking are needed: not only in technical terms but also in legal, social, economic, pedagogic and other terms. **ICCHP** is open towards all these aspects and invites to and provides a platform for an according holistic discussion for improving the lives of people with disabilities in every corner of our world.

ICCHP 2016 will host high-quality, well reviewed submissions from scientists, users, practitioners, educators and policy makers.

In addition to the traditional paper sessions, the meeting also invites industry representatives showing their new products and looking for new ideas.

In particular **ICCHP** welcomes young researchers, the next generation of experts in our field, and invites them to contribute to the Young Researchers Consortium as well as to the Coding for a Cause competition. Additionally, the conference affords spaces and times for less formal discussions – an important factor supporting the transfer of knowledge so needed in our endeavors.

Please examine our current call for papers and updated web information. Please consider joining us in July 2016 in Linz. **ICCHP** is an outstanding international meeting place, a stimulating and inclusive venue for presenting research.

Come and get involved!

Christian Bühler,
TU Dortmund, FTB Vollmarstein, Germany

General Chair ICCHP 2016

ICCHP Topics

ICCHP focuses on Assistive Technology (AT) and accessible ICT (eAccessibility) for people with disabilities and older adults fostering independent life, participation and inclusion and improved services and support.

By its nature, **ICCHP** has a wide area of topics and a future oriented mission.

A glossary of conference topics is added at the end of the Call.

ICCHP 2016 is open to visionary ideas and future oriented thoughts – an inclusive platform for you!

Key Dates

Call for Papers	September 2015
Deadline for getting involved in Coding for a Cause (C4C)	December 15, 2015
Deadline for announcing Specific Thematic Sessions (STS)	January 15, 2016
Deadline for extended abstracts / full papers	February 1, 2016
Deadline for reviews	February 22, 2016
Notification of acceptance	February 27, 2016
Preliminary Programme	March 15, 2016
Deadline for camera ready papers	March 25, 2016
Deadline for submissions to the Young Researchers´ Consortium	April 15, 2016
Notification of Acceptance Young Researchers´ Consortium	May 15, 2016
Deadline Early Registration	May 1, 2016
Deadline for announcing Workshop, Tutorials, Seminars, Meetings, Demonstrations and Posters	June 1, 2016
Deadline for Nominations ICCHP Award	June 15, 2016
Pre-conference	July 11-12, 2016
Conference	July 13-15, 2016

Call for Contributions

Full Papers and Short Papers

ICCHP publishes its proceedings in the acknowledged Springer Lecture Notes in Computer Science (LNCS). Papers (max. 8 pages) and short papers (max. 4 pages) will be presented in time slots of ~ 20 (papers) or ~ 10 minutes (short papers).

To allow a fair review process, authors are asked to submit well-elaborated **extended abstracts (2-4 pages) not later than February 1, 2016**. Contributions will be reviewed by at least three experts and based on their judgment selected for acceptance.

Authors should follow the instructions for preparing contributions ("extended abstracts") at:

http://www.icchp.org/submission-16

Registration to the conference by one author is mandatory!

Information on how to prepare Camera Ready versions:

http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0

The *Journal of Assistive Technologies* (JAT) plans to publish a series of articles from one theme at **ICCHP** 2016, and more information will follow about the chosen strand. All delegates will be offered free access to Volume 9 Issue 3 of JAT, which contains a group of papers from **ICCHP** 14 dealing with mobile technologies.

Special Thematic Sessions

ICCHP invites experts to organize Special Thematic Sessions (STS) to present a detailed and comprehensive view to specific topics of particular interest. Chairs organizing STS are asked to advertise the session on their own. An introduction by the chair will scientifically recognize these efforts in the proceedings.

Special thematic sessions must be announced **until January 15, 2016**.

More information at: **http://www.icchp.org/sts-16**

Universal Learning Design Track

ICCHP is proud to cooperate with the **Support Centre for Students with Special Needs of Masaryk University Brno**, Czech Republic, in organizing a special track on Universal Learning Design (ULD) as part of **ICCHP** 2016.

This track will put a particular emphasis on inclusive learning and teaching environments. It provides a platform for a more interdisciplinary discussion. More information will be made available following **http://uld-conference.org**.

Contributions to ULD should be submitted by using the **ICCHP** conference tool and selecting ULD as the contribution category.

Workshops, Tutorials and Seminars

ICCHP invites to run introductory workshops, tutorials and seminars, especially during Pre-Conference. For conference participants, **ICCHP** provides all necessary facilities for free. Workshops, tutorials and seminars should be announced by eMail to **icchp(at)jku.at** until **June 1, 2016**.

Meetings, Presentations and Posters

ICCHP provides facilities for meetings of project consortia, associations and other organizations that want to combine their activities with **ICCHP**. Possibilities for displaying information can be made available (e.g. exhibition space, poster wall). For conference participants organizing such activities is free of charge. Meetings, Presentations and Posters should be announced by eMail to **icchp(at)jku.at** until **June 1, 2016.**

Young Researchers´ Consortium

"The Next Generation of AT Experts"

The YRC will be organized to take place during the pre-conference sessions. Supervisors of e.g. diploma, PhD thesis, practical work in companies focusing on or related to the field of AT and eInclusion should motivate and support outstanding students to take part. The best contributions will be presented in a 2016 plenary session. **ICCHP** will cover participation and accommodation costs. Extended abstracts on the work have to be submitted till **April 15, 2016**.

Submission and more information at: **http://www.icchp.org/yrc-16**

ICCHP Summer University 2016

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 at: **http://www.icchp.org/su-16** and **http://www.icchp-su.net/**

Code for a Cause – C4C

Student Coding Competition for eAccessibility and AT

ICCHP, in co-operation with P:P (**Project:Possibility**) calls for participation in this students programming competition for accessibility.

Universities, as part of their curricula in Computer Science and related fields, can invite groups of students to work on eAccessibility topics defined by end users or experts.

The best team from each university will be invited to take part in the P:P final during ICCHP.

Interest in participating should be announced no later than **December 1, 2015** by eMail: **icchp(at)jku.at**.

More information at: **http://www.icchp.org/c4c-16**

ICCHP Award

Roland Wagner Award on Computers Helping People with Special Needs

The Austrian Computer Society announces the biannual **ICCHP** Roland Wagner award in the range of € 3000, handed over at the occasion of **ICCHP** conferences.

Nominations are to be submitted until

June 15, 2016 by eMail: **icchp(at)jku.at**. Details can be found at: **http://www.icchp.org/award**

Former Winners

Award 7	Shared Award for: Masakazu Suzuki (Kyushu University), Japan Art Karshmer (University of San Francisco), USA
Award 6	The TRACE Center, USA Gregg Vanderheiden
Award 5	Shared Award for: Harry Murphy (Center on Disabilities at California State University), USA Joachim Klaus (Study Center for the Visually Impaired, Karlsruhe University), Germany
Award 4	Daisy Consortium, USA George Kersher
Award 3	Larry Scadden (National Science Foundation), USA
Award 2	Paul Blenkhorn (For scientific work in software development in AT), UK
Award 1	WAI-W3C, USA Judy Brewer
Award 0	Roland Wagner (Initiating award on the occasion of Prof. Wagners 50th birthday), AT

ICCHP 2016 Organizational Details A – Z

Cancellation Policy

For cancellations **until June 15, 2016**, we charge a service fee of **€75,-**.

For **authors and later cancellations no refund** can be made.

The date of receipt shall be decisive.

Participants, who do not cancel and do not attend, will still be responsible for the full registration fee. The participant has the right to appoint a substitute at any time without additional cost.

All cancellations and changes must be submitted in written form – with indication of full name, invoice number and bank details for reimbursement – to: **icchp(at)jku.at**.

Conference Language

The conference language is **English**.

Conference Rates

Category	Rate (€)	Proceedings	Gala Event	Lunch	Info / Deadline
Author´s Rate	550	incl.	incl.	incl.	March 25, 2016
Additional paper	100	-	-	-	Rate per piece, March 25, 2016
Early Bird Rate	550	incl.	incl.	incl.	May 15, 2016
Standard Rate	600	incl.	incl.	incl.	July 1, 2016
On-site Rate	650	incl.	incl.	incl.	
One-Day Rate	230	-	-	-	
Students´ Rate	100	-	-	-	Student ID required
Personal Assistants	0	-	-	-	Get in touch!

All rates/categories include coffee break(s) and Welcome / Farewell reception! All rates are excl. 10% VAT.

Cultural and Social Events

ICCHP is committed to its role of transferring the idea and concept of an open in inclusive society into mainstream. Culture and art are powerful vehicles to support a change in awareness, understanding and attitudes regarding inclusion and participation in society. **ICCHP** invites you to a sociable, comforting **Welcome Cocktail**, a splendid **Gala Event** and a communicative **Farewell Party**

More at: **http://www.icchp.org/social-events-16**

Registration

An online registration form will be made available at:

http://www.icchp.org/user/register

Specific Needs Support

ICCHP is committed to accommodate people with disabilities.

In order to arrange services get in touch as soon as possible with icchp(at)jku.at and

check the box "Specific needs service" during registration.

Following http://www.icchp.org/accessibility-16 you will get information on specific needs services available at ICCHP 2016.

At ICCHP Info Desk, you will get help and support during the whole conference. Please get in touch whenever there is something to be arranged for you! Availability of the info desk can be checked following http://www.icchp.org/onsite-16. (Available June 2016, latest)

Venue

ICCHP 2016 will be organized on the campus of Johannes Kepler University, Linz, Austria.

Johannes Kepler University Linz   **Google Maps:** https://goo.gl/maps/4LewX
Altenbergerstr. 69
4040 Linz
Austria
Web: http://www.jku.at   eMail: icchp(at)jku.at

Information on the venue and possible accommodation can asap be found following

http://www.icchp.org/onsite-16

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Young Researchers´ Consortium

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Vigouroux, N.	IRIT Toulouse	France
Vlachogiannis, E.	Fraunhofer Institute for Applied Information Technology	Germany
Votis, K.	CERTH/ITI	Greece
Wada, C.	Kyushu Institute of Technology	Japan
Wagner, G.	Upper Austria University of Applied Sciences	Austria
Watanabe, T.	University of Niigata	Japan
Weber, H.	ITA, University of Kaiserslautern	Germany
Wöß, W.	University of Linz	Austria
Yamaguchi, K.	Nihon University	Japan
Yeliz Yesilada	Middle East Technical University	Cyprus

Organization Committee and Contact

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Glossary of ICCHP Topics

The following, non exhaustive list of topics outlines the scope of ICCHP:

(e)Accessibility addresses overcoming or proactive avoiding barriers for people with disabilities in the information society, e.g. Web, Software, Document, Communication and Conversation, Consumer Electronics (e.g. iDTV accessibility) and Built Environment Accessibility; besides aspects like guidelines, standards, techniques and tools for development, evaluation and repair, it gives a particular focus on how to include accessibility into the engineering process.

(e)Ageing and Gerontechnology discusses systems and tools helping to maintain autonomy and independence when ageing. How such systems can be designed for persons who are not familiar with technologies is part of this topic, too.

Ambient and Assisted Living (AAL), Internet of Things and Sensor Technology outlines the potential, accessibility and usability of the fast growing application of embedded, smart and pervasive systems for people with disabilities by integrating, enhancing and supporting the interaction via the standardized ICT/HCI/AT experience.

Assessment and Profiling calls for research on methodologies, concepts and techniques for evaluating capabilities and needs of individuals and how to translate them into computable profiles. This should allow better matching of persons and technology.

Assistive Technology (AT) focuses on innovation and advancing the quality and availability of assistive devices aiming at overcoming or compensating functional limitations and its impact. This includes contributions of mainstream technology showing potential for supporting people with disabilities, special Rehabilitation Technology and Biomedical Engineering.

Augmented and Alternative Communication (AAC) intends to progress methods and tools for people with problems in spoken and written communication.

Cloud Computing analyzes the potential of shared and configurable Internet based resources for enhanced AT and services as well as the challenges for eAccessibility.

Design for All (Universal Design) highlights the proactive application of principles, methods and tools to meet the requirements of the biggest possible user group including those with disabilities in fields like e.g. architecture, transport, housing, public buildings, work place, information, education.

eGovernment and eDemocracy discuss eAccessibility of ICT and Internet based public services for all citizens.

eHealth - Medicine and Care encourages synergetic aspects of ICT/AT for diagnostics, care, therapy, training and rehabilitation.

eInclusion, Policies and Legislation outline programmes, legal contexts and funding opportunities aiming at a better exploitation of ICT, AT and eAccessibility for inclusion.

eLearning and education illustrate new dimensions opened by ICT/AT for didactic and methodological settings and the changing role for learners, teachers and administrators; it addresses education of people with disabilities in all is aspects, education of service providers and professionals as well as the inclusion of eAccessibility into mainstream education.

HCI and Non Classical Interfaces explore the potential of emerging Human-Computer Interaction developments like sensor based interaction, Brain-Computer Interaction (BCI), gesture interaction, natural language interfaces, tangible interfaces, game based interfaces, computer vision, virtual and augmented environments, wearable computing, adaptive interfaces, mobile and touch technology, multimedia, multi- or a-Modal interaction.

History in AT and eInclusion gives a tribute to the founders of our discipline and aims at avoiding to reinvent the wheel.

Labour Market Integration discusses how to ameliorate the career opportunities of people with disabilities by using ICT/AT and making the work place accessible and how to better qualify users and professionals.

Social Innovation and (e)Service Delivery covers all aspects (human, economic, organizational and management) involved in implementing concrete services. ICCHP discusses ideas and concepts of social innovation, e.g. user driven and crowd-sourcing approaches and the potential of ICT /AT and eAccessibility. This includes presentation and discussion of examples, empirical studies, quality measures and interdisciplinary aspects of a holistic service provision.

Usability and Ergonomics focus on day to day use of (accessible) ICT/HCI/AT based systems and services and their efficiency, effectiveness, memorability, flexibility, joy ... of use for people with disabilities and their environment.

User Centered Design and User Participation underline the importance of involving end users at eye level in all steps of R&D towards application and present strategies, methods and experiences for a more user driven R&D practice.