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
Welcome

ICCHP Topics

Key Dates

Call for Contributions

Full Papers and Short Papers

Special Thematic Sessions

Universal Learning Design Track

Workshops, Tutorials and Seminars

Meetings, Presentations and Posters

Young Researchers’ Consortium

ICCHP Summer University 2016

Code for a Cause – C4C

ICCHP Award

Former Winners

ICCHP 2016 Organizational Details A – Z

Cancellation Policy

Conference Language

Conference Rates

Cultural and Social Events

Registration

Specific Needs Support

Venue

ICCHP Committees

General Chair

ICCHP Steering Board

Publishing Chairs

Programme Chairs

Young Researchers’ Consortium

Workshop Chairs

International Programme Committee

Organization Committee and Contact

ICCHP Office

Glossary of ICCHP Topics
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
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/ycr-16](http://www.icchp.org/ycr-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](http://www.icchp.org/su-16) and [http://www.icchp-su.net/](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](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
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

<table>
<thead>
<tr>
<th>Category</th>
<th>Rate (€)</th>
<th>Proceedings</th>
<th>Gala Event</th>
<th>Lunch</th>
<th>Info / Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author’s Rate</td>
<td>550</td>
<td>incl.</td>
<td>incl.</td>
<td>incl.</td>
<td>March 25, 2016</td>
</tr>
<tr>
<td>Additional paper</td>
<td>100</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>550</td>
<td>incl.</td>
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<td>Standard Rate</td>
<td>600</td>
<td>incl.</td>
<td>incl.</td>
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<td>On-site Rate</td>
<td>650</td>
<td>incl.</td>
<td>incl.</td>
<td>incl.</td>
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<tr>
<td>One-Day Rate</td>
<td>230</td>
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<tr>
<td>Students’ Rate</td>
<td>100</td>
<td>-</td>
<td>-</td>
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<td>Personal Assistants</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Get in touch!</td>
</tr>
</tbody>
</table>

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 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  
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
ICCHP Committees

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Bühler, Ch.  
TU Dortmund Technical University, FTB, Germany

ICCHP Steering Board

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

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Masaryk University, Czech Republic
Zagler, W.  
Vienna University of Technology, Austria

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Fels, D  
Ryerson University, Canada
Kouroupetroglou, G.  
University of Athens, Greece
Kobayashi, M.  
Tsukuba University of Technology, Japan
Manduchi, R.  
University of California at Santa Cruz, USA
Ramesh, S., K.  
California State University, Nothridge, USA
Weber, G.  
Technische Universität Dresden, Germany

Young Researchers´ Consortium

Archambault, D.  
Université Paris 8, France
Fels, D  
Ryerson University, Canada
Fitzpatrick, D.  
Dublin City University, Ireland
Kobayashi, M.  
Tsukuba College of Technology, Japan
Lam, S.  
Project:Possibility, USA
Mihaillidis, A.  
University of Toronto, Canada
Morandell, M.  
AIT Austrian Institute of Technology GmbH, Austria
Pontelli, E.  
New Mexico State University, USA
Prazak-Aram, B.  
AIT Austrian Institute of Technology GmbH, Austria
Weber, G.  
Technische Universität Dresden, Germany
Zimmermann, G.  
Stuttgart Media University, Germany
Workshop Chairs

Petz, A.  University of Linz, Austria
Pühretmair, F.  KI-I, Austria

International Programme Committee

Abascal, J  Euskal Herriko Unibertsitatea  Spain
Abott, C.  King’s College London  United Kingdom
Abou-Zahra, S.  W3C Web Accessibility Initiative (WAI)  Austria
Abu Doush, I.  Yarmouk University  Jordan
Andrich, R.  Polo Tecnologico Fondazione Don Carlo Gnocchi Onlus  Italy
Arató, A.  KFKI-RMKI  Hungary
Azevedo, L.  Instituto Superior Tecnico  Portugal
Banes  Qatar Assistive Technology Center  Qatar
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Batusic, M.  Fabasoft  Austria
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Bernier, A.  BrailleNet  France
Bosse, I.  Technische Universität Dortmund  Germany
Bu, J.  Zhejiang University  China
Chen, W.  Oslo and Akershus University College of Applied Sciences  Norway
Chorbev, I.  Ss. Cyrill and Methodius University in Skopje  Macedonia
Christensen, L. B.  Sensus  Denmark
Chutimaskul, W.  King Mongkut’s University of Technology Thonburi  Thailand
Coughlan, J.  Smith-Kettlewell Eye Research Institute  USA
Craddock, G.  Centre for Excellence in Universal Design  Ireland
Crombie, D.  Utrecht School of the Arts  Netherlands
Cudd, P.  University of Sheffield  United Kingdom
Darvishy, A.  Züricher Hochschule für Angewandte Wissenschaften  Switzerland
Darzentas, J.  University of Aegean  Greece
Debevc, M.  University of Maribor  Slovenia
Debeljak, M.  University of Ljubljana  Slovenia
DeRuyter, F.  Duke University Medical Centre  USA
Diaz del Campo, R.  Antarq Tecnosoluciones  Mexico
Draffan, E.A.  University of Southampton  United Kingdom
Dupire, J.  CNAM  France
Emiliani, P.L.  Institute of Applied Physics "Nello Carrara"  Italy
Engelen, J.  Katholieke Universiteit Leuven  Belgium
Galinski, Ch.  InfoTerm  Austria
Gardner, J.  Oregon State University  USA
Hakkinen, M.T.  Educational Testing Service (ETS)  USA
Harper, S.  University of Manchester  United Kingdom
Heimgärtner, R.  Intercultural User Interface Consulting (IUIIC)  Germany
Holone, H.  Østfold University College  Norway
Hoogerwerf, E.-J.  AIAS Bologna  Italy
Inoue, T.  National Rehabilitation Center for Persons with Disabilities  Japan
Iversen, C. M.  U.S. Department of State  USA
Jaworek, G.  Karlsruhe Institut of Technology  Germany
Kalinnikova, L.  Pomor State University  Russia
Kouropetoglou, Ch.  ALTEC  Greece
Kremser, W.  OCG, HSM  Austria
Lauruska, V.  Siauliai University  Lithuania
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<td>ITA, University of Kaiserslautern</td>
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<tr>
<td>Yeliz Yesilada</td>
<td>Middle East Technical University</td>
<td>Cyprus</td>
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</table>
Organization Committee and Contact

Austrian Computer Society

Klemen, Markus D. (President)
Bieber, Ronald (CEO)
Kremser, W. (Working Group ICT with/for People with Disabilities)

Institute Integriert Studieren, JKU Linz, Austria

Feichtenschlager, Priska
Hemetsberger, Nicoleta
Heumader, Peter
Koutny, Reinhard
Miesenberger, Klaus
Murillo Morales, Tomás
Petz, Andrea
Pölł, Daniel
Schult, Christian

Wagner, Roland
Zylinski, Isabella

Masaryk University Brno (ULD)

Penaz, Petr

ICCHP Office

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mail icchp@jku.at
phone ++43 (0) 732 2468 3750
fax ++43 (0) 732 2468 23750
Glossary of ICCHP Topics

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

**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.

**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.