



# Call for Papers

## **14<sup>th</sup> ICCHP** **International Conference** **on Computers Helping People** **with Special Needs**

**July 9 – 11, 2014**

**Pre-Conference**  
July 7 - 8, 2014

Université Paris 8 – Vincennes – Saint Denis  
Paris, France

**[www.icchp.org](http://www.icchp.org)**

***Deadline for submitting extended abstracts of Scientific Papers:***  
***February 1, 2014!***

Organized in co-operation with:  
**Université Paris 8 – Vincennes – Saint Denis, Paris, France**  
**Austrian Computer Society**  
**Institute Integriert Studieren, University of Linz, Austria**

# Welcome

The 14th biennial International Conference on Computers Helping People with Special Needs (ICCHP) will be held in Paris. After 2004, when Université Paris VI hosted ICCHP, we are excited that ICCHP is back to Paris and is proud to be hosted by Université Paris 8 – St.Denis. Paris8 is a major teaching and research centre for humanities in the Île-de-France region focusing on humanities, human sciences, arts and social sciences. It is one of the first and still one of the few universities successfully offering a master in AT called “Technologie et Handicap” since 2001. This makes Paris8 very well suited for ICCHP in terms of R&D, teaching and also for their professional services for students with disabilities (“Le service Accueil handicap”) and you can expect a professional team cooperating with the experienced ICCHP team from the University of Linz.

Society is changing fast but the mission and the goals of ICCHP are still valid: Making ICT accessible and tailoring AT and services to allow inclusion and participation in all aspects of society. From the inception of the conference, ICCHP has been a vibrant forum for the discussion on the needs, contributions and quality of life of people with special needs. Many topics, from educational issues, mobility support, and issues associated with the aging to disability rights, are openly discussed at ICCHP in an inclusive and agreeable venue. Cutting edge scientific breakthroughs and discussion of complex issues related these topics can be found at ICCHP.

Once again publishing with Springer Lecture Notes in Computer Science will make the scientific output of researchers in our domain available also to a broad mainstream audience where we expect that our results will support a broad implementation of eAccessibility.

The meeting will host high-quality, well reviewed submissions from scientists, users, practitioners, educators and policy makers from around the world. 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 SS12 coding competition. Additionally, the conference affords spaces and times for less formal discussions – an important factor supporting the transfer of knowledge so needed in our endeavours.

Please examine our current call for papers and plan on joining us in July 2014 in Paris. ICCHP is a fun, stimulating and inclusive venue for presenting research.

**Come and get involved!**

**Deborah Fels, Ryerson University, Toronto, Canada  
(General Chair ICCHP 2014)**

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## ICCHP Topics

**ICCHP** focuses on Assistive Technology (AT) and accessible ICT 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 2014 is open to visionary ideas and future oriented thoughts – an inclusive platform for yours!***

## Key Dates

Call for Papers	September 2013
Getting involved in Project:Possibility	
SS12 Students Coding competition	December 1, 2013
Deadline for announcing	
Special Thematic Sessions (STS)	January 20, 2014
Deadline for extended abstracts	February 1, 2014
Notification of acceptance	March 1, 2014
Preliminary Programme	March 15, 2014
Deadline for final, camera ready papers	April 4, 2014
Deadline for contributions to the	
Young Researchers' Consortium	April 15, 2014
Notification of Acceptance to the	
Young Researchers' Consortium	May 15, 2014
Deadline early registration	May 15, 2014
Deadline for workshops, tutorials, seminars	June 1, 2014
Deadline Nomination for ICCHP Award	July 1, 2014
Pre-conference	July 7 – 8, 2014
Conference	July 9 – 11, 2014

# Call for Contributions

## Full Papers and Short Papers

ICCHP publishes its proceedings in the acknowledged Springer Lecture Notes in Computer Science (LNCS). 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).

To allow a fair review process, authors are asked to submit well-elaborated **extended abstracts (2-4 pages) not later than February 1, 2014**. Papers will be reviewed by at least three experts and based on their judgment 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:

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

**Registration to the conference by one author is mandatory!**

## Special Thematic Sessions

ICCHP 14 invites experts to organize Special Thematic Sessions (STS) to present a detailed and comprehensive view to specific topics of particular interest. An introduction by the chair will scientifically recognize these efforts in the proceedings. Special thematic sessions must not be announced **later than January 20, 2014**.

More information at: <http://www.icchp.org/call/sts>

## Universal Learning Design Conference

ICCHP is proud to cooperate with the **Support Centre for Students with Special Needs of Masaryk University Brno**, Czech Republic, in organising a special track on Universal Learning Design (ULD) as part of the ICCHP conference. This track will put a particular emphasis on inclusive learning and teaching environments. It provides a platform for an 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

Pre-conference and conference invite to run 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, 2014** by eMail to: [icchp@jku.at](mailto:icchp@jku.at)

## 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 **till July 1, 2014** by eMail to: [icchp@jku.at](mailto:icchp@jku.at)

## 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 plenary session of ICCHP. ICCHP will cover participation and accommodation costs. Extended abstracts on the work have to be submitted till **April 15, 2014**. More at: <http://www.icchp.org/call/youngresearchers>

## ICCHP Summer University 2014

**ICCHP Summer University on Math, Science and Statistics for Visually Impaired Users 2014**

- 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-su.net/>

## Project:Possibility – SS12

### Student Coding Competition for eAccessibility and AT

ICCHP, in co-operation with P:P ([www.projectpossibility.com](http://www.projectpossibility.com)) and the eAccess+ network ([www.eaccessplus.eu](http://www.eaccessplus.eu)) calls for participation in this students programming competition for accessibility. Universities, as part of their curricula in Computer Science and related fields, should 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, 2013** by eMail: [icchp@jku.at](mailto:icchp@jku.at). More information at: <http://www.icchp.org/call/projectpossibility>

## 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 € which will be handed over at the occasion of ICCHP conferences.

## Nomination Committee

Andras Arato, KFKI Budapest, Hungary

Dominique Burger, INSERM, France

Arthur Karshmer, University of San Francisco, 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, 2014.**

Details can be found at:

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

## Former Laureates

2012 – Award 6: TRACE Centre of the University Wisconsin-Madison

2010 - Award 5: Harry J. Murphy, US & Joachim Klaus, DE

2008 - Award 4: George Kersher & The Daisy Consortium, US

2006 - Award 3: Larry Scadden, US

2004 - Award 2: Paul Blenkhorn, UK

2002 - Award 1: Judy Brewer, WAI-W3C, US

## 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. Therefore,

### Social Events

In the glamorous and charming metropole Paris, ICCHP will provide agreeable and enjoyable moments to foster the international exchange. Traditionally and of course again in 2014, ICCHP invites you to a sociable, comforting **Welcome Cocktail**, a splendid **Gala Event** and a communicative **Farewell Party**

More at: <http://www.icchp.org/socialevents>

## ICCHP 2014 Organizational Details

### Cancellation Policy

For cancellations until June 15, 2014, we charge a service fee of EUR 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@jku.at](mailto:icchp@jku.at).

### Conference Language

The conference language is **English**.



## Conference Location & Accommodation

ICCHP 2014 will be held at Université Paris 8 – Vincennes – Saint Denis

2, rue de la Liberté

93526 Saint-Denis cedex, France

Information on the venue and possible accommodation can be found following

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

## Conference Rates

Category	Rate (€)	Proceedings	Gala Event	Lunch	Info / Deadline
Author's Rate	550	incl.	incl.	incl.	April 4, 2014
Additional paper	100	n.a.	n.a.	n.a.	Rate per piece April 4, 2014
Early Bird Rate	550	incl.	incl.	incl.	May 15, 2014
Standard Rate	600	incl.	incl.	incl.	June 30, 2014
On-site Rate	650	incl.	incl.	incl.	
One-Day Rate	230	-	-	-	
Students' Rate	100	-	-	-	Student ID required
Affiliates of Paris 8	0	-	-	-	ID-card required
Personal Assistants	0	-	-	-	please get in touch

All rates/categories include coffee break(s) and Welcome / Farewell reception!

"incl." means: "Included in rate" / "–" means: "Not included in rate"

"n.a." means "not applicable"

All rates are excl. 10% VAT.

## Registration

An online registration form will be made available at:

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

Please check <http://www.icchp.org/OnsiteInformation> for availability of on-site registration and info-desk.

## 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@jku.at](mailto:icchp@jku.at) and check the box "Specific needs service" during registration.

Following <http://www.icchp.org/accessibility> you will get information on specific needs services available at ICCHP 2014. At ICCHP Information ("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/OnsiteInformation>.

## ICCHP Committees

### General Chair

**Fels, D.** Ryerson University, Canada

### ICCHP Steering Board

Burger, D. INSERM, France  
Klaus, J. Karlsruhe Institut of Technology, Germany  
Karshmer, A. University of San Francisco, USA  
Murphy, H. J. California State University, Nothridge, USA  
Suzuki, M. Kyushu University, Japan  
Tjoa, A M. Vienna University of Technology, Austria  
**Wagner, R.** University of Linz, Austria

### Publishing Chairs

Archambault, D. Université Paris 8, France  
**Miesenberger, K.** University of Linz, Austria  
Penaz, P. Masaryk University, Czech Republic  
Zagler, W. Vienna University of Technology, Austria

### Programme Chairs

Fitzpatrick, D. Dublin City University, Ireland  
Manduchi, R. University of California at Santa Cruz, USA  
Ramesh, S., K. California State University, Nothridge, USA  
Watanabe, T. University of Niigata, Japan  
Weber, G. Technische Universität Dresden, Germany

### Workshop Chair

**Pühretmair, F.** KI-I, Austria

## Young Researchers' Consortium

Fels, D	Ryerson University, Canada
Fitzpatrick, D.	Dublin City University, Ireland
Gelderblom, G.-J.	Zuyd University, The Netherlands
<b>Kobayashi, M.</b>	<b>Tsukuba College of Technology, Japan</b>
Lam, S.	Project:Possibility, USA
Mihailidis, A.	University of Toronto, Canada
<b>Morandell, M.</b>	<b>AIT Austrian Institute of Technology GmbH, Austria</b>
Pontelli, E.	New Mexico State University, USA
Prazak-Aram, B.	AIT Austrian Institute of Technology GmbH, Austria
Weber, G.	Technische Universität Dresden, Germany

## International Programme Committee

Abascal, J	Euskal Herriko Unibertsitatea	Spain
Abbott, C.	King's College London	United Kingdom
Abou-Zahra, S.	W3C Web Accessibility Initiative (WAI)	Austria
Abu Doush, I.	Yarmouk University	Jordan
Abu-Ali, A.	Philadelphia 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
Batusic, M.	Fabasoft	Austria
Bernareggi, C.	Universita degli Studi di Milano	Italy
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Bühler, C.	TU Dortmund University, FTB	Germany
Chorbev, I.	Ss. Cyrill and Methodius University in Skopje	Macedonia
Christensen, L. B.	Sensus	Denmark
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Conway, V.	Edith Cowan University	Australia
Coughlan, J.	Smith-Kettlewell Eye Research Institute	USA
Craddock, G.	Centre for Excellence in Universal Design	Ireland
Crombie, D.	Utrecht School of the Arts	The Netherlands
Cudd, P.	University of Sheffield	United Kingdom
Cummins Prager, M.	California State University Northridge	USA
Darvisy, A.	Züricher Hochschule für Angew. Wissensch.	Switzerland
Darzentas, J.	University of Aegean	Greece
Debeljak, M.	University of Ljubljana	Slovenia

DeRuyter, F.	Duke University Medical Centre	USA
Diaz del Campo, R.	Antarq Tecnosoluciones	Mexico
Dupire, J.	CNAM	France
Emiliani, P.L.	Institute of Applied Physics "Nello Carrara"	Italy
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Galinski, Ch.	InfoTerm	Austria
Gardner, J.	Oregon State University	USA
Gelderblom, G.-J.	Zuyd University	The Netherlands
Hanson, V.	University of Dundee	United Kingdom
Holzinger, A.	Medical University of Graz	Austria
Hoogerwerf, E.-J.	AIAS Bologna	Italy
Inoue, T.	Nat. Rehab. Center for Persons with Disabilities	Japan
Iversen, C. M.	U.S. Department of State	USA
Jaskova, L.	Comenius University of Bratislava	Slovak Republic
Jaworek, G.	Karlsruhe Institut of Technology	Germany
Jemni, M.	University of Tunis	Tunisia
Kalinnikova, L.	Pomor State University	Russia
Koronios, A.	University of South Australia	Australia
Kouropetroglou, Ch.	ALTEC	Greece
Kouroupetroglou, G.	University of Athens	Greece
Kremser, W.	OCG, HSM	Austria
Lauruska, V.	Siauliai University	Lithuania
Leahy, D.	Trinity College Dublin	Ireland
Lopez-Krahé, J.	Université Paris 8	France
Magnussen, M.	Stockholm University	Sweden
Matausch, K.	KI-I	Austria
Mathiassen, N.-E.	Statped	Norway
Mayer, Ch.		Austria
McDonagh, D.	University of Illinois at Urbana-Champaign	USA
McMullin, B.	Dublin City University	Ireland
Mohamad, Y.	Fraunhofer Institute for Applied Inf. Techn.	Germany
Muratet, M.	INS HEA	France
Normie, L.	GeronTech	Israel
Nussbaum, G.	KI-I	Austria
O Connor	NCBI Centre For Inclusive Technology	Ireland
Ohnabe, H.	Niigata University of Health and Welfare	Japan
Oku, H.	Kobe Gakuin University	Japan
Ono, T.	Tsukuba University of Technology	Japan
Paciello, M.	The Paciello Group	USA

Panek, P.	Vienna University of Technology	Austria
Petrie, H.	University of York	United Kingdom
Petz, A.	University of Linz	Austria
Quirschmayr, G.	University of Vienna	Austria
Rasmus-Groehn, K.	Lund University	Sweden
Rice, D.	National Disability Authority	Ireland
Sanchez, J.	University of Chile	Chile
Sax, C.	San Diego State University	USA
Sik Lányi, C.	University of Pannonia	Hungary
Simsik, D.	University of Kosice	Slovakia
Sloan, D.	The Paciello Group	United Kingdom
Snarud, M.	University of Agder	Norway
Stephanidis, C.	University of Crete, FORTH-ICS	Greece
Stiefelhagen, R.	Karlsruhe Institut of Technology	Germany
Stoeger, B.	University of Linz	Austria
Suweda, O.	The Hyogo Institute of Assistive Technology	Japan
Svensson, H.	National Agency for Special Needs Education	Sweden
Takagi, H.	IBM	Japan
Takahashi, Y.	Toyo University	Japan
Tauber, M.	University of Paderborn	Germany
Teshima, Y.	Chiba Institute of Technology	Japan
Traunmüller, R.	University of Linz	Austria
Trehin, P.	World Autism Organisation	France
Truck, I	Université Paris 8	France
Uzan, G.	Université Paris 8	France
Velasco, C. A.	Fraunhofer Institute for Applied Inf. Techn.	Germany
Velleman, E.	Bartimeus	The Netherlands
Vigo, M.	University of Manchester	United Kingdom
Vigouroux, N.	IRIT Toulouse	France
Vlachogiannis, E.	Fraunhofer Institute for Applied Inf. Techn.	Germany
Votis, K.	CERTH/ITI	Greece
Wagner, G.	Upper Austria University of Applied Sciences	Austria
Weber, H.	ITA, University of Kaiserslautern	Germany
Weisman, J.	Rehab Technology Service	USA
Wöß, W.	University of Linz	Austria
Yamaguchi, K.	Nihon University	Japan
Yeliz Yesilada	Middle East Technical University	Cyprus
Zangla, K.	University of New Orleans	USA
Zetterstrom, E.	Qatar Assistive Technology Center	Qatar

## Organization Committee and Contact

### **Austrian Computer Society**

Göbl, Reinhard (President)

Bieber, Ronald (CEO)

Kremser, W. (Working Group ICT with/for People with Disabilities)

### **Institute Integriert Studieren, Johannes Kepler University Linz, Austria**

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### **ICCHP Office**

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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** 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 its 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 Involvement** underline the importance of involving end users in all steps of R&D towards application and present strategies, methods and experiences for a more user driven R&D practice.

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