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Preface

Welcome to the ICCHP 2018 Proceedings!

ICCHP's mission for inclusion and participation in the information society strives for better Assistive Technology (AT) and eAccessibility for support, enhancement and restoration of resources for people with disabilities and compensating limitations of standardized Human-Computer Interaction (HCI). This mission continues to gain even more importance owing to the ongoing ICT revolution (Internet/Web of Things/Ubiquitous computing/Cloud-based services).



ICCHP had the honor to accompany and support the revolutionary developments of AT and eAccessibility over the past three decades. With its roots going back almost 30 years, it provides an outstanding and most comprehensive overview of these revolutionary developments supporting the full inclusion and participation of people with disabilities in all domains of society. The ICT revolution brings along an increased potential for inclusion and participation, but also risks for exclusion and thus the responsibility for implementing eAccessibility.

This 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. The UN Convention on the Rights of People with Disabilities (UNCRPD) is the globally accepted reference and expression of the societal transformation toward effective inclusion and participation of all people with disabilities in society. The UNCRPD refers to AT, eAccessibility, eInclusion, and Design for All as pre-conditions and means of support.

These are exactly 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 with evidence on how Information and Communication Technologies (ICT), AT, and eAccessibility have been implemented and have significantly contributed to the improvement of the life of people with disabilities. By addressing all these aspects, ICCHP invites and provides a platform for a holistic discussion on improving the lives of people with disabilities in every corner of our world.

ICCHP is proud to contribute with its scientific excellence to these outstanding social developments. All 21 volumes of past proceedings, covering more than 2,400 reviewed articles,¹ are a unique source for learning and understanding the theoretical, methodological, and pragmatic specializations of our field and for reflecting on the inclusion movement. This collection of work, with its unique user focus, offers a

¹ Owing to the increasing interest in ICCHP, the last two conferences published their proceedings in two volumes.

significant body of evidence for the enormous but often neglected impact on usability for all users regardless of their abilities.

In 2018, the proceedings of the 16th conference are delivered to you as a compendium of the new and exciting scholarly and practical work going on in our field. Again, in a highly competitive process, 136 experts formed the scientific committee compiling at least three reviews for each of the 356 submitted contributions. A panel of 12 conference chairs selected and accepted 101 submissions as full papers and 78 as short papers based on the expert reviews, which you find now in the two volumes of the proceedings. This two-phase selection procedure guarantees the high scientific quality making ICCHP unique in our field. The concept of organizing “Special Thematic Sessions” again helped to structure the proceedings and the program in order to support a deep focus on highly desirable selected topics in the field as well as to bring new and interesting topics to the attention of the research community.

ICCHP hosts a high-quality and fully accessible meeting for scientists, users, practitioners, educators, and policy makers. In addition to the traditional paper sessions, the forum also includes 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 encourages 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.

We welcomed the attendees’ valuable contribution to ICCHP 2018 and encourage them and their colleagues to become regular participants in its most important mission, which is also recognized through patronage of the United Nations Educational, Scientific and Cultural Organization (UNESCO). It is here that research, innovation, and practical endeavors in important topics of AT and eAccessibility can come together to be shared, explored, and discussed.

July 2018

Klaus Miesenberger
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Once again we thank all those helping in putting ICCHP 2018 together and thereby supporting the AT field and a better quality of life for people with disabilities. Special thanks go to all our supporter and sponsors, displayed at <http://www.icchp.org/sponsors-18>.

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