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Chair's Welcome

Welcome to CHI 2006! CHI is the leading international conference on human-computer interaction (HCI). It provides an opportunity to interact with your colleagues, to inform each other about the latest results and methods in the HCI field, and to inspire each other to move the field forward. CHI takes on some new forms this year. We have expanded the technical program to four days, in large part due to the growth of activity in the many areas of HCI. We have made courses part of the regular technical program and have included them in the registration fee.

This year we have made an explicit effort to engage the many communities that make up the CHI field. The goal has been to ensure that the conference program contains events that will appeal to all communities. Of course, many events are cross-cutting, appealing to multiple communities.

- Design – Design processes for creating user experiences; user interface innovations.
- Education – Advancing HCI education at all levels.
- Engineering – Organizing the design and construction of interactive artifacts to achieve desired outcomes.
- Management – The business and organizational sides of HCI.
- Research – Scientifically advancing the state of the field in all areas.
- Usability – Methods, tools, and strategies to improve the user experience of products and services.

The CHI 2006 conference is being held at the Palais des Congrès (convention center) in the heart of Montréal. This facility is within walking distance of many attractions. The conference hotels are all clustered near the Palais. Montréal is a wonderful, cosmopolitan city, an interesting mix of European and North American influences.

We hope you enjoy this year's conference.

Gary Olson
Conference Chair

Robin Jeffries
Technical Program Chair

CHI 2006 Papers & Notes Co-Chair's Message

Welcome to the CHI 2006 proceedings. We believe the research papers you will find here represent the latest and most significant work in the diverse and dynamic field of human-computer interaction (HCI).

As a leading conference in the field, creating a CHI research papers program requires a tremendous amount of effort and time from the research community. Many of you have contributed as authors, reviewers, or as volunteers supporting the papers process. We thank all of you for the dedication and seriousness with which you undertook this work. For each of the 674 submissions – 508 full papers and 168 CHI Notes – received this year, thousands of words of reviews, discussion among reviewers, and meta-reviews were written. During the review process 1183 reviewers generated well over 3300 reviews providing feedback to authors whether their papers were accepted or not. We are particularly indebted to the papers and notes program committee members, also known as the Associate Chairs (ACs). Balancing areas of expertise and geography, ACs are selected from the field's leading researchers, and in some special cases senior practitioners responsible for the user experience of major products. ACs were responsible for recruiting all reviewers, moderating and supervising the review process to ensure a high-quality set of reviews was obtained, initiating and organizing author rebuttal and reviewer discussions, shepherding revisions for papers needing extra attention, and approving final submissions. Full papers ACs met in Atlanta in December, 2005 largely at their own expense and from all around the world for two intense days of review, debates, and deliberation. The expected time expenditure to serve as a full papers AC was 14 days of full-time work, and many committee members' efforts far exceeded those estimates. The committee was extremely serious and careful in making CHI paper decisions, with many papers receiving multiple discussions throughout the meeting. While no review process can execute perfectly in every case, we believe this year's process took several steps in the right direction to improve the consistency and quality of CHI reviews and the resulting papers. This year's program committee certainly has our everlasting gratitude and deserves the sincere appreciation of the entire HCI community.

New for 2006, CHI Notes are modeled on the successful UIST TechNotes and CSCW Notes categories of research papers. CHI Notes are similar in many respects to the full papers found in these proceedings, but CHI Notes are briefer and more focused (4 pages instead of 10). The goal is to increase the diversity of the fully-reviewed technical program by presenting submissions that might not fit well within the traditional research papers program. As with full papers at CHI 2006, we believe the notes you will find here represent the latest and most significant work in the diverse and dynamic field of human-computer interaction.

In many respects CHI Notes are similar to full papers. First and foremost, CHI Notes were designed to be reviewed to the same exacting standards as full papers; the submission and review process for CHI Notes was almost identical to the system in place for full papers. Both full papers and CHI Notes are self-contained contributions to the research program, and they must contain clear statements of the significance of the work and the contribution relative to related work. However, CHI Notes are different from full papers. CHI Notes are much more focused and succinct contributions with a maximum length of 4 pages. As such, they typically have a smaller scope of contribution and do not necessarily have all the traditional elements of a full paper submission (but they may go into depth in specific areas). Also, CHI Notes are not expected to discuss related work to the same breadth or level of completeness of a full paper. This year, we accepted 33 of our 168 CHI Note submissions. While the authors, reviewers and ACs may have been challenged by the lack of precedent for what makes a great CHI Note, we are very pleased by our program. We think you will be, too.

CHI is both a journal-quality archival forum and a community-building conference. In selecting this year's research papers we emphasized "contribution and substance" throughout the process — from the Call for Submissions to reviewer instructions to the program committee meeting. Focusing on contribution is critical to the vitality of our field. To encourage quality in the written presentation of accepted work, all of the 118 full paper acceptances were initially provisional. As a result, authors actively responded and incorporated feedback from the reviews into the final versions of the papers that appear here. We believe that effectively treating the CHI paper review process more like a journal review while remaining within the constraints of a conference timeline has had a salutary effect on the quality of the final papers. We hope you will agree.

Finally, the SIGCHI "Best of CHI" program resulted in 29 of the accepted full papers and notes that were deemed to make an especially noteworthy contribution to human-computer interaction research being designated by the program committee as nominees for Best of CHI Awards. An awards committee, chaired by Jim Miller, selected three to receive the label SIGCHI Best Paper. The Best Paper awardees are called out in the table of contents with a wreath icon; the remaining nominees are shown with a quill icon. While all papers accepted into the CHI research papers program are the result of a rigorous review process, the Best of CHI Awards give our community a welcome mechanism for collectively taking notice of particularly outstanding contributions in each year.

We hope you will enjoy the research papers program at *CHI 2006* and will find the work reported herein inspiring, challenging, and of lasting value.

Rebecca E. Grinter and Tom Rodden
CHI 2006 Papers Co-Chairs

Paul Aoki and Edward Cutrell
CHI 2006 CHI Notes Co-Chairs

From ACM SIGCHI's President and Vice President for Conferences

Welcome to CHI 2006! SIGCHI is proud to sponsor the premier annual conference in the field of human-computer interaction. Many notable events and advances in HCI have taken place at past CHI conferences, and this year is no exception. We are also extremely grateful to Gary Olson, the CHI 2006 Conference Chair, and his entire committee for putting together such an impressive program and experience. We particularly appreciate their efforts to make it possible to extend CHI 2006 to a four-day technical program; to add a new job fair, CHI notes, and other venues; and to make CHI's courses more accessible to attendees.

The CHI conference, sponsored by ACM's Special Interest Group on Computer-Human Interaction (SIGCHI), is an ideal forum for people to meet, both formally and informally, to exchange views, to share experiences, and to learn. This conference brings together professionals from research and practice; people from industry, academia, and government; long-time veterans of HCI and newly emerging students and professionals; all in an environment designed to encourage interaction. We invite you to take an active part in that interaction--introduce yourself to people, interact with presenters and speakers, renew old friendships or make new ones.

SIGCHI is an international group of professionals who share an interest in the many diverse facets of HCI. SIGCHI is committed both to advancing the field of HCI and to facilitating exchange of information within the SIGCHI community. While the CHI conference is the single most visible activity of SIGCHI, we also sponsor and support a wide range of more specialized conferences in areas ranging from interactive system design to user interface technology to computer-supported cooperative work to user interfaces imbued with artificial intelligence. Please consult the SIGCHI conference schedule, or visit our website at http://www.sigchi.org/ for more information.

SIGCHI and ACM also produce some of the most highly respected publications in the field. All members receive interactions, a highly-acclaimed magazine covering the broad field of HCI and user interface design. ACM Transactions on Computer-Human Interaction, now in its 12th year, is our flagship journal--a quarterly publication with the top-quality archival research aimed at researchers and those translating research into practice. To help members keep up in these fast-paced times, we also publish an on-line newsletter--SIGCHI Bulletin--with information about SIGCHI's activities and news in the field.

SIGCHI is truly an international organization, with 65 chapters in 30 countries on six continents. We encourage all SIGCHI members to join their local chapter - or if there isn't one in your area, we would love to help you create one. And don't forget virtual communities! SIGCHI hosts dozens of electronic mailing lists on topics ranging from HCI and the Web, to HCI education, to public policy and beyond. These lists range from dozens of subscribers to thousands, and are an excellent way to keep up with the field and with friends.

Finally, on behalf of ACM SIGCHI, we again want to thank the conference committee and all of the hundreds of volunteers who make this conference possible. Their work makes this a rewarding experience for each of us.

Joseph A. Konstan
SIGCHI President

Dennis Wixon
SIGCHI Vice-President for Conferences

About SIGCHI and ACM

CHI 2006 is sponsored by ACM's Special Interest Group on Computer-Human Interaction (ACM SIGCHI). The scope of SIGCHI consists of the study of the human-computer interaction processes and includes research, design, development, and evaluation efforts for interactive computer systems. The focus of SIGCHI is on how people communicate and interact with a broadly-defined range of computer systems. SIGCHI serves as a forum for the exchange of ideas among computer scientists, human factors scientists, psychologists, social scientists, system designers, and end users. Nearly 5,000 professional members of the SIGCHI community work together toward common goals and objectives.

ACM, the Association for Computing Machinery (www.acm.org), is committed to advancing computing as a science and as a profession. ACM serves as an umbrella organization offering its 80,000 members a variety of forums in order to fulfill its members' needs — the delivery of cutting-edge technical information, the transfer of ideas from theory to practice, and opportunities for information exchange. Providing high quality products and services — world-class journals and magazines; dynamic special interest groups; numerous "main event" conferences; tutorials; workshops; local special interest groups and chapters; and electronic forums - ACM is the resource for lifelong learning in the rapidly changing IT field.

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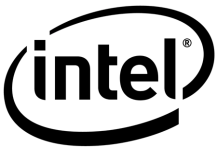

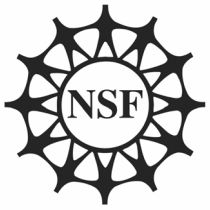

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