

Conference Proceedings

Volume 1 ~ April 6th Papers & Notes

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Computing Machinery

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CHI 2009 Conference & Technical Program Chairs' Welcome

Welcome to CHI 2009!

CHI is where the latest advances and information on computer-human interaction can be found. CHI is a community experience where people learn, discuss, share and interact with each other. The CHI community is diverse with many different disciplines and a wide range of interests from research to practice. We have tried to provide a full program of many different venues and activities rich with opportunities to discover.

CHI 2009 continues its four day format. However, we once again have record numbers of submissions in all categories. Hundreds of people have devoted thousands of hours in reviewing and selecting those pieces of work that will be presented here. The increased number of submissions means that there are many more presentations to be packed into four days.

Our theme this year is **Digital Life – New World**. As the cost of basic computing drops it becomes economically feasible for computing devices to enter many more parts of human life. This digital presence in everyday life poses new challenges in research, design and creativity. When computing is part of life rather than isolated on a desk, the human challenges loom much larger. As these human challenges are met, technology will influence and shape culture and society. It will literally be a new world. We see this as an exciting opportunity and hope that you will find both answers and questions here at CHI 2009.

One of our new venues this year is the video showcase. This provides an opportunity for many different kinds of design, innovation, opinion and futurism to be presented to the community. We hope you will come to our theater, grab some popcorn and enjoy the show.

Boston is a great location for CHI. It is one of the early hubs of the historic New World. It is a place where people came in hopes of building new lives for themselves by finding new opportunities. It is also a place where revolutions began and people sought to choose for themselves how they would be governed. Boston has been the home of innovation across most of the history of computer science. X-Windows was born here. Enjoy the town, its culture and history while sharing this conference with us.

Dan R. Olsen Jr., *Brigham Young University*
CHI 2009 Conference Chair

Ken Hinckley, *Microsoft Research*
Meredith Ringel Morris, *Microsoft Research*
CHI 2009 Technical Program Chairs

About SIGCHI and ACM

CHI 2009 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. Visit SIGCHI at <http://www.sigchi.org>.

ACM, the Association for Computing Machinery <http://www.acm.org/>, is an educational and scientific society uniting the world's computing educators, researchers and professionals to inspire dialogue, share resources and address the field's challenges. ACM strengthens the profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking. ACM offers its 87,000 global members cutting-edge technical information through world class journals and magazines, dynamic special interest groups and globally recognized conferences.

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CHI 2009 Papers & Notes Co-Chair's Message

Welcome to CHI 2009! CHI comprises many events, ranging from archival material stored in the ACM digital library, to transient interactions such as the presentations, panels, and poster discussions, to the many social interactions and activities that make CHI a collegial and intimate experience. All parts are important, but it is the archival material – especially the papers and notes – that establishes CHI as the leading academic conference in Human Computer Interaction. Yet there are significant challenges in managing paper and notes within CHI. The HCI field has been very successful at creating new generations of research and practitioners over the years. The many people who are part of this community see CHI as the place to share their knowledge and experiences with others, primarily by publishing and presenting papers and notes. This has stressed the system in many ways. As submissions increase, so do the difficulties in managing the review process, finding good reviewers and other volunteers, matching papers to those competent in the subject matter, deciding which papers to accept or reject, maintaining consistent standards across both paper and notes, and not falling into the trap of overly narrowing our view of what is an ‘acceptable’ CHI paper.

This year, we introduced several large changes to the CHI papers/notes process to mitigate these challenges, most which will be transparent to attendees. First, we reorganized the CHI program committee into nine topical subcommittees - each a mini program committee - comprising sub-committee chairs (SCs) and various associate chairs (ACs) knowledgeable on the topic. Authors could select the subcommittee that he or she felt could best handle their submission. We did this to improve the match of a submission to AC and ultimately to reviewers, to have more focused and relevant discussions in the program committee meeting, and to minimize the load on individual volunteers. Second, we combined papers and notes, where all were handled in exactly the same way. We did this to ensure a consistent decision standard across both submission types. Third, we introduced contribution types, where each type described a different way that a CHI submission could contribute to the field as well as typical questions such a contribution should address. Authors identified their submission by contribution type, and (hopefully) used the information to help structure their paper. The idea is that we wanted to encourage a broad variety of submissions from authors (rather than ‘formula’ papers), while also providing guidance to referees by supplying criteria appropriate to the type of contribution the submission was making.

It will likely take several years before the full impact of these changes are known. We know that subcommittees did help us manage the large number of submissions. We also believe there was an overall better match between referees and submissions, and that papers and notes were handled consistently. We don't yet know about the effect of contribution types: this is a cultural change where we are hoping that authors will be more willing to write papers that don't match a particular formula, and that reviewers will be more accepting of those submissions.

Now for the numbers. This year, there were 1130 submissions, comprising 711 full papers and 419 notes. This is the highest number of submissions ever to CHI. Of these, we accepted 24.5%. The papers/notes committee involved 107 volunteers: the 2 co-chairs, 10 sub-committee chairs, and 95 associate chairs (ACs). Each AC managed 10-14 submissions, and personally recruited at least three – sometimes more – referees knowledgeable in the paper's topic. Refereeing was through blind review. Each referee returned a recommendation along with a detailed review, and authors had opportunity to rebut these reviews. Additional reviews were sometimes solicited. Almost all program committee members then attended a two day meeting in Boston in December. Rigorous discussions took place at the PC meeting, and the majority of papers were read by a second AC as well. The decision process was highly visible so that the committee could calibrate itself. Finally, the various committees nominated 5% of the submissions as potential best papers. A separate committee deliberated over these papers, where only 1% of papers and notes received a best paper award. In total, as you will see in the program, 32 papers and four notes were designated as honorable mentions, while seven papers and four notes honored as best papers. Congratulations to all authors who achieved this significant status!

We praise the commitment of the sub-committee chairs, associate chairs, and referees for all their hard work. All gave up considerable time to this process. The various chairs also paid for this privilege, traveling from all around the world to the CHI PC meeting at their own expense. What a commitment! This is what CHI is about: these many people are all volunteers who give so willingly of their time with scant reward. It makes us proud.

Scott Hudson, *Carnegie Mellon University*
Saul Greenberg, *University of Calgary*
 CHI 2009 Papers & Notes Co-Chairs

From ACM SIGCHI's President and Vice President for Conferences

Welcome to CHI 2009! 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 Dan Olsen, the CHI 2009 Conference Chair, Ken Hinckley and Meredith Ringel Morris, the CHI 2009 Technical Program Co-Chairs, and their entire committee for putting together such an impressive program and experience.

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 15th 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.

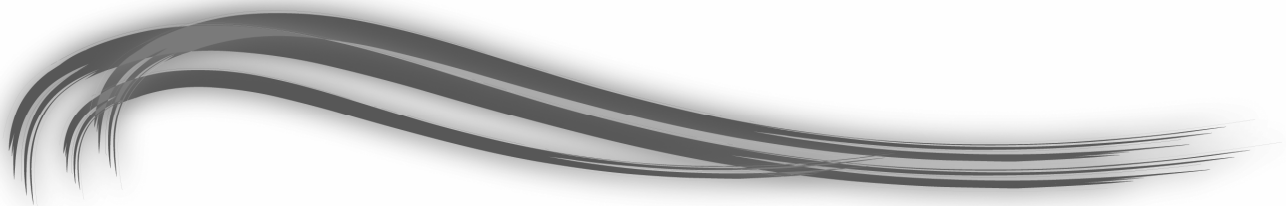
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