IUI 2013: ACM International Conference on Intelligent User Interfaces

Santa Monica, CA - March 19-22, 2013

IUI 2013 is the 18th annual meeting of the intelligent interfaces community and serves as the principal international forum for reporting outstanding research and development on intelligent user interfaces.

IUI is where the community of people interested in Human-Computer Interaction (HCI) meets the Artificial Intelligence (AI) community. We are very interested in contributions that bridge these two fields and also related fields, such as psychology, cognitive science, computer graphics, the arts, etc. IUI researchers are interested in improving the symbiosis between humans and computers, so that interface design and interactive experiences yield higher performance outcomes. This may involve designing interfaces that incorporate intelligent automated capabilities, if the net impact is a human-computer interaction that improves performance or usability in critical ways. It may also involve designing an interface that effectively leverages human skills and capabilities, so that human performance with an application excels. In other cases, such as educational interface design, it may involve exercising judgment in when not to automate a function so that humans are encouraged to exert themselves as they acquire new skills or domain knowledge.

We call for original submissions that describe novel technologies and applications to intelligent user interfaces.

Topics

User input
Processing of multi-modal input
Natural language and speech processing
Gestures, face recognition

Generation of system output
Intelligent visualization tools
Intelligent generation of user-consumable content

Ubiquitous computing

Intelligent interfaces for ubiquitous computing
Smart environments and tangible computing

Help
Intelligent assistants for complex tasks
Support for collaboration in multiuser environments
Intelligent information and knowledge management

Personalization
User-adaptivity in interactive systems
Recommender systems
Modeling and prediction of user behavior

AI Techniques
Planning and plan recognition
Reasoning in interfaces
Knowledge-based systems

Social Computing
Affective, social and aesthetic interfaces
Social networks and collaboration

IUI Design
Knowledge-based approaches to user interface design and generation
Proactive and agent-based paradigms for user interaction
Example- and demonstration-based interfaces

User studies
User studies concerning intelligent interfaces
Evaluations of implemented intelligent user interfaces

Semantic Web
Query interfaces and novel interfaces for Linked Data
Consuming Linked Data
Interfaces for creating and using large ontologies

Important Dates

Papers abstracts due:	October 15, 2012
Papers and workshop proposals due:	October 22, 2012
Student Consoritum submissions due:	November 16, 2012
Posters, Demonstrations due:	January 9, 2013
Conference dates:	March 19-22, 2013

Submission Venues

Papers

Abstracts Due: October 15, 2012
Papers Due: October 22
Reviews Due: November 12
Rebuttal Period: November 26-30
Decisions Sent: December 19
Camera-Ready Due: January 14, 2013

Program Chairs

Jeffrey Nichols (jwnichols@us.ibm.com, IBM, Almaden, USA)
Pedro Szekely (pszekely@isi.edu, University of Southern California, USA)

We invite original paper submissions that describe novel user interfaces, applications, interactive and intelligent technologies, empirical studies, or design techniques. See the topics section above for a more comprehensive list of areas in which IUI encourages submissions. Accepted papers will be published in the ACM Digital Library. IUI 2013 especially encourages submissions on innovative and visionary new concepts or directions for interface design. We do not require evaluations with users, but we do expect papers to include an appropriate evaluation for their stated contribution.

Submission Guidelines and Notes

- **Focus:** Unlike traditional AI, our focus is not so much to make the computer smart all by itself, but to make the interaction between computers and people smarter. Unlike traditional HCI, we do not require in-depth studies with users to motivate or prove the effectiveness of the research. Evaluations need only be appropriate to the type of contribution claimed.
- **Format:** We are currently exploring a change in paper format so that the final documents will be more suitable for reading on a tablet and other electronic reading devices. Details about this will be available soon on the IUI web site (http://www.iuiconf.org/).
- **Paper length:** The length of a paper should be commensurate with the size of its contribution, and we expect papers to be succinct but thorough in presenting the work. Reviewers will be asked to weigh the contribution of a paper relative to its length. A maximum length of 10 pages will be enforced, **not including references**, but no minimum length will be enforced. Shorter, more focused papers are encouraged, and will be reviewed like any other paper. Note that unlike previous years, there will no longer be a separate short paper category.
- **Abstracts due early:** To facilitate a faster review process, abstracts will be due a week before the full paper deadline. Abstract submission is required, and paper submissions that fail to submit an abstract by the abstract deadline will not be reviewed.
- **Reviewing and rebuttal process:** Each paper will be reviewed by a primary reviewer from the program committee and two or more external reviewers (experts in the area that are not on the committee). On November 26, authors will be notified of their reviews. If reviews fall below the auto-rejection threshold the paper will be rejected at this stage. Otherwise, the authors will have the opportunity to submit a rebuttal if their paper is above the rejection threshold. Furthermore, a secondary reviewer (from the papers committee) will be asked to write a review prior to the committee meeting taking into account the rebuttal.
- **Anonymization**: All papers must be appropriately anonymized according to the following guidelines:

1. Author's names and affiliations are not present in the paper.
2. Self-citations should be included where necessary, but must use the third person. For example, "... as shown in our previous user study [2] ..." is not allowed, whereas "... Smith et al. [2] show that" is acceptable. **Do not** exclude citations to relevant work simply because they are self-citations or "blind" self-citations by removing the text of the reference from the references section.
3. Remove or anonymize acknowledgments.

Failure to follow these guidelines may result in papers being rejected without review.

- **All accepted papers presented orally:** All accepted papers of any length will be presented orally at the conference and published in the ACM Digital Library. Oral presentations will be 15 or 25 minutes long, to be determined during the review process.
- **No more "accept as short paper":** Previous IUI conferences have accepted some long papers contingent on their being shortened to the short paper page length. This year papers will be accepted at their submitted length only.
- **Videos:** Submission of a video accompanying your paper is optional, but highly encouraged. However, videos should be no more than five minutes in length and 50MB in size. Follow the video guide, as well as the video requirements for more details about preparing your video submission.
- **Submission**: submit your abstract and paper at https://precisionconference.com/~sigchi

Posters

Posters due: January 9, 2013
Decisions sent: January 30, 2013

Poster Chairs

Oliver Brdiczka (brdiczka@parc.com, PARC)
Jalal Mahmud (jumahmud@us.ibm.com, IBM Research - Almaden)

Posters provide an opportunity for sharing valuable ideas, eliciting useful feedback on early-stage work and fostering discussions and collaborations among colleagues. We invite submissions on all topics of the conference. All submissions should convey a scientific result or work in progress that is not yet ready to be published as a full length research paper at a refereed conference.

Submission Guidelines and Notes

- **Format**: Poster papers must be submitted in camera ready form as there will be no separate deadline for camera ready submission. Follow the formatting instructions from SIGCHI, available at: http://chi2012.acm.org/cfp-formatting-instructions.shtml#archiveformat. Papers that exceed the given page length or do not follow the formatting guidelines will be rejected without review.
- **Title requirement:** Title of Poster papers should start with [Poster]. For example, [Poster] An algorithm for intelligent user interface using natural language input.
- **Paper length:** 2 pages.
- **Anonymization:** Poster papers **should** contain name and affiliations of the authors.

- **Publication:** Accepted poster papers will be published in the ACM Digital Library.
- **Presentation:** Participants with an accepted poster paper must register for the conference and present their work during the Poster Session. Posters will be highlighted in a special madness session (one minute per poster) preceding the demonstration and poster session during the conference.
- **Videos:** Poster papers will be reviewed based on the contents of the paper and videos will not be used in the review process.
- **Submission**: Submit your poster paper at https://precisionconference.com/~sigchi

Demonstrations

Demonstration papers due: January 9, 2013
Decisions sent: January 30, 2013

Demonstration Chairs

Oliver Brdiczka (brdiczka@parc.com, PARC)
Jalal Mahmud (jumahmud@us.ibm.com, IBM Research - Almaden)

The demonstrations track of the IUI 2013 complements the overall program of the conference. Demonstrations show implementations of novel, interesting, and important intelligent user interface concepts or systems. We invite submissions relevant to intelligent user interfaces and which address, but are not limited to, the topics of the conference outlined in the call for papers. All submissions are intended to convey a scientific result or work in progress and should not be advertisements for commercial software packages.

Submissions to the demonstrations track must be in form of a textual description of the demonstration to be given at the conference. Decisions about acceptance will be based on relevance, originality, potential significance and clarity. Papers that exceed the given page length or do not follow the formatting guidelines will be rejected without a review. The demonstration papers must address the following topics:

1. What is the research background and application context of the demonstration?
2. What is the key technology used, and how does the demonstrated system, application or infrastructure relate to pre-existing work?
3. What exactly will be demonstrated? What exactly will a visitor of the demonstration learn?

Submission Guidelines and Notes

- **Format**: Demonstration papers must be submitted in camera ready form as there will be no separate deadline for camera ready submission. Follow the formatting instructions from SIGCHI, available at:
  http://chi2012.acm.org/cfp-formatting-instructions.shtml#archiveformat
- **Title Requirement:** The title of demonstrations papers should start with [Demo]. For example, [Demo] A system for intelligent user interface using natural language input.
- **Paper length:** 2 pages.
- **Anonymization:** Demonstration papers **should** contain name and affiliations of the authors.

- **Publication:** Accepted demonstration papers will be published in the ACM Digital Library.
- **Presentation:** Participants with an accepted demonstration paper must register for the conference and present their system during the Demonstration Session. A space for demonstration will be allocated for each participant. Participants should use their own laptop. Contact the organizers for special requirements. Demonstrations will be highlighted in a special madness session (one minute per demonstration) preceding the demonstration and poster session during the conference.
- **Videos:** Submission of an accompanying video is **required**. Videos should be at most three minutes long and 50MB in size. Video guidelines and video requirements are available in the following links: http://www.iuiconf.org/video_guide.html, http://sheridanprinting.com/sigchi/iuivideo.htm
- **Submission**: Submit your demonstration paper at https://precisionconference.com/~sigchi

Workshops

Workshop proposals due: October 22, 2012
Decisions sent: November 12
Workshop go/no-go date: January 9, 2013
Workshop date: March 19, 2013

Workshop Chair

Daniel Sonntag (sonntag@dfki.de, DFKI, Germany)

Workshops will be held on the first day of the conference. We invite submissions of full-day (6 hours) and half-day (3 hours) workshop proposals on any of the conference topics.

Submission Guidelines and Notes

Each workshop proposal should provide the following information:
- **Name and title:** A one-word workshop name and a full title.
- **Description of workshop topic and goal:** This description should discuss the relevance of the suggested topic and its interest to the intelligent user interface community and the IUI 2013 audience. Include a brief discussion of why and for which audience the workshop is of particular interest.
- **Organizers**: Names and full addresses (including email and web address) of the workshop organizer(s). This can be a single person or a group of persons. Please indicate the primary contact person for the workshop to IUI 2013. Strong proposals include organizers who bring differing perspectives to the workshop topic and who are actively connected to the communities of potential participants.
- **Workshop program committee:** Names and affiliation of the members of the workshop program committee in charge of evaluating the workshop submissions.
- **Participants**: A statement saying how many participants you expect and how you plan to invite participants for the workshop. The proposal should include the names of at least 10 people who have expressed interest in the workshop.

- **Workshop format:** A brief description of the workshop format regarding the mix of events such as paper presentations, invited talks, panels, demonstrations, and general discussion.
- **Length**: Full-day or half-day.
- **Workshop proposal format:** Workshop proposals should be maximum 2 pages long and follow the formatting instructions from SIGCHI, available at: http://chi2012.acm.org/cfp-formatting-instructions.shtml#archiveformat.
- **Review**: Workshop proposals will be reviewed and evaluated by the workshop chair and the IUI 2013 conference and program committees.
- **Publication**: An extended abstract of the workshop will be included in the ACM Digital Library for IUI 2013. Workshop proposals and workshop papers will not be published in the ACM Digital Library. A single PDF including all workshop papers and notes will be published on the IUI 2013 web site.
- **Cancellation**: Workshops with fewer than 10 paper submissions by 9 January 2013 will be cancelled.
- **Submission**: Submit your workshop proposal materials at https://precisionconference.com/~sigchi

Responsibilities of Workshop Organizers
- **Producing a call for participation:** This call will be posted on the IUI 2013 web site.
- **Publicity**: Organizers are responsible for additional publicity such as distributing the call to relevant newsgroups and electronic mailing lists, and especially to potential audiences from outside the IUI conference community.
- **Submission**: Submissions of the workshop papers will be handled by the workshop organizers.
- **Web site**: Organizers must maintain their own web site with updated information about the workshop.
- **Workshop notes**: The workshop organizers coordinate the paper collection, production, and distribution of the working notes for the workshops. Produce a single PDF with the workshop material to allow inclusion in the IUI 2013 web site.
- **Extended Abstract:** The extended abstract is a description of the workshop intended for publication in the IUI 2013 proceedings and may not exceed four pages. It must contain a summary of the workshop goals and an overview of the workshop topics. It must follow the formatting instructions from SIGCHI, available at: http://chi2012.acm.org/cfp-formatting-instructions.shtml#archiveformat. (Note that this is the only document from the workshop that will be included in the IUI conference publications.)

Student Consortium

Papers due: November 16, 2012
Decisions sent: December 21, 2012
Camera ready due: January 14, 2013

Student Consortium Chairs

Jane Hsu (prof.hsu@gmail.com, National Taiwan University)
Henry Lieberman (lieber@media.mit.edu, MIT Media Lab)

The IUI 2013 Student Consortium provides an opportunity for Masters and Doctoral students to present and receive feedback about their research work in an interdisciplinary workshop, under the guidance of a panel of mentors, selected from senior people in the field. We invite students who feel they would benefit from this kind of feedback on their dissertation to apply for this unique opportunity to share their work with students in a similar situation as well as senior researchers in the field. The strongest candidates will be those who have a clear topic and research approach, and have made some progress, but who are not so far along with their thesis that they can no longer make changes. In addition to stating how you will gain from participation, both you and your advisor should be clear on what you can contribute to the Consortium.

The objectives of the student consortium are:
● Provide a supportive setting to provide/receive feedback on students' current doctoral research and guidance on future research directions
● Offer each student comments and fresh perspectives on their work from researchers and students outside of their own institution
● Promote the development of a supportive community of scholars and a spirit of collaborative research
● Contribute to the conference goals through interaction with other researchers and conference events

The consortium will be organized as a single track, with about 8 to 12 presentations by the students whose applications have been selected by the Doctoral Consortium mentors. Selected applicants will receive complimentary conference registration, and a limited, partial reimbursement of travel, accommodation and food expenses.

Submission Guidelines and Notes
● **Who can participate**: Current MS and PhD graduate students who would benefit from detailed workshop discussions of their doctoral research.
● **Format**: Student consortium papers should consist of a single PDF file that includes the following elements:
    1. An extended abstract describing the central aspects of your research work. The description should be 4 pages long and follow the formatting instructions from SIGCHI, available at: http://chi2012.acm.org/cfp-formatting-instructions.shtml#archiveformat.
    2. Letter of recommendation from your advisor.
    3. If you are requesting travel funding, information required by our NSF travel support (which we will request).
    It is essential to ensure that the submission is complete and in accordance with the format and guidelines. Because the Student Consortium Committee expects to receive a large number of applications, submissions that do not meet these requirements will be rejected without review.
● **Review**: The Student Consortium committee will review and make acceptance/rejection decisions about all proposals. The decision for acceptance will balance many factors, including the quality of the research proposal, its relevance to the IUI field and where you are within your masters or doctoral education program. It also includes external

factors, including balancing the backgrounds and topics of selected proposals. The institution will also be taken into account: it is highly unlikely that more than two students from the same institution will be selected and almost certainly that we will not accept more than one student with the same advisor.
- **Camera ready**: Authors of accepted submissions will receive instructions on how to submit their publication-ready copy (i.e. the final version of the extended abstract). The camera-ready version should incorporate the reviewers' comments.
- **Publication**: Accepted Student Consortium abstracts will be available in the ACM Digital Library, where they will remain accessible to thousands of researchers and practitioners worldwide.
- **Presentation**: All participants are expected to attend the Consortium, including a group dinner on the evening of 17 March 2013. Each student will present his/her work to the group with substantial time allowed for discussion and questions by participating researchers and other students. Note that being accepted to the Consortium requires your commitment to give/receive thoughtful and constructive feedback from experts in the field.
- **Attendance**: Authors of accepted submissions will also receive information about attending the Student Consortium, preparing the oral presentation and poster, registering for the conference at our cost, and making travel arrangements and receiving reimbursement of expenses. These benefits are contingent on attending the Student Consortium.
- **Submission**: Submit your student consortium paper at https://precisionconference.com/~sigchi

Program Committee

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