

IUI 2011 Call for Papers

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

Paper submission deadline: **September 10th, 2010**

Intelligent User Interfaces (IUI) is the premier conference for reporting on the study of user interfaces with intelligent devices. This topic is of increasing importance as the consumer is interfacing with a wide variety of devices with embedded computation and connectivity and the computer is fading into the background. IUI is where the community of people interested in Human-Computer Interaction (HCI) meets the Artificial Intelligence (AI) community. We're also very interested in contributions from related fields, such as psychology, cognitive science, computer graphics, the arts, etc. 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're more willing to consider solutions that involve large amounts of knowledge and emerging technologies such as natural language understanding, brain computer interfaces or gesture recognition.

IUI 2011 will be held in Palo Alto, California, USA, February 13-16 2011. Situated at the heart of the Silicon Valley, Palo Alto the location is ideal for interactions between academia and industry

IUI 2011 seeks high-quality, original research papers about intelligent user interfaces. It encourages participation from around the globe by both academic and industrial researchers and developers. All submissions will be reviewed by a distinguished international program committee. Each paper will receive at least three reviews and one meta review. For IUI2011, we will also organize a rebuttal process during which authors can submit their rebuttals based on the received reviews.

IUI topics:

Topics of interest for IUI include all aspects of intelligent user interfaces. Successful papers will include aspects of both intelligence and human-computer interaction. The topics include but are certainly not limited to the following:

Intelligent interaction with devices

- Intelligent interactions with handheld devices such as mobile phones, music and video players, GPS, cameras, electronic books, etc.
- Sensor- and actuator systems for user interfaces
- Location- and context aware information systems
- Tangible interaction with smart artifacts
- Ubiquitous displays environments
- Smart environments

Novel, intelligent interaction systems

- Modeling and prediction of user behavior
- Affective, social and aesthetic interfaces
- Natural user interfaces including tangible computing and body computing
- User-adaptivity in interactive systems
- Personalization and recommender systems
- Planning and plan recognition

IUI design

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

User studies

- User studies concerning intelligent interfaces
- Evaluation methods and evaluations of implemented intelligent user interfaces
- Smart technologies for remote usability testing and experience sampling

Processing of human-generated input

- Recognition and interpretation of user input (face, body, speech, physiology, text)
- Analysis of psychological user states, such as attention and affect
- Analysis of conversational cues, such as grounding and turn taking
- Intelligent sensing platforms
- Synchronization and fusion of Multimodal Input

Generation presentation of system output

- Smart visualization tools
- Intelligent authoring systems
- Context-aware systems for the generation and presentation of situation-specific output (e.g., on mobile phones, portable tablet devices, wall-size displays, multi-touch screens, meeting accessibility criteria)
- Synthesis of multimodal behavior for virtual characters and social robots

Intelligent help assistants for complex tasks

- Support for collaboration in multiuser environments
- Intelligent information and knowledge management

Novel trends, innovative solutions and applications

- Novel sensing technologies for games and entertainment
- Automotive user interfaces
- Novel interaction methods for touch phones and multi touch surfaces

Submission of Long and Short Papers

There are two categories of paper submissions:

LONG PAPER submissions should report on substantial contributions of lasting value. Each accepted long paper will be presented in a plenary session of the main conference program. An accompanying demonstration can be presented in a poster/demo session. The maximum length is 10 pages in the two-column SIGCHI conference format.

SHORT PAPER submissions typically discuss exciting new work that is not yet mature enough for a long paper. Each accepted short paper will be presented in a poster/demo session. The presentation may include a system demonstration. The maximum length is 4 pages.

All submissions should be prepared according to the standard SIGCHI publications format. For your convenience, we provide paper templates in Microsoft Word and LaTeX:

- [Microsoft Word document template](http://www.iuiconf.org/chi2009pubsformat.doc) (<http://www.iuiconf.org/chi2009pubsformat.doc>)
- [LaTeX class file](http://www.iuiconf.org/chi2009_LaTeX.zip) (http://www.iuiconf.org/chi2009_LaTeX.zip)

Note: Per the request of several submitters, we are making the LaTeX template available. However, the LaTeX template is unsupported, and we are making no commitment that this template will be available in future years.

IUI does not use blind review, so please include authors' names and affiliations on your submission.

Submissions must be in PDF format. All papers must be submitted electronically before **Friday, 10th September 2010, 11:59pm US PDT** via <http://iui2011.confmaster.net/>

We are on a very short timeline, and no extensions will be granted under any circumstances. If you are planning to work up to the last minute, we recommend submitting a copy of your paper several hours before the deadline, just in case. You can continue to upload revised copies up until the deadline.

Each submission will be assigned to an Associate Chair (meta-reviewer) and reviewed by at least two members of the program committee. Accepted papers from both categories will be included in the conference proceedings to be published in hard copy by the ACM Press and electronically in the ACM Digital Library (<http://portal.acm.org/dl.cfm>).

Multiple submissions policy: A paper should not be submitted to IUI 2011 if the same paper - or a substantially similar version - has already been accepted for publication by another conference, if it is currently under review for another conference, or if it will be submitted to another conference by the **5th of November 2010**.

Important Dates

Submission of long paper abstracts Monday, 6 September 2010

Long & Short Paper submissions Friday, 10 September 2010, 11:59pm US PDT

Long paper rebuttals due Friday, 15 October 2010

Rebuttal process ends Friday, 22 October 2010

Long and Short Paper final notification: Friday, 5 November 2010

Long & Short Paper camera-ready due Friday, 26 November 2010

Intention to submit workshop proposal Friday, 16 July 2010

Workshop proposals due Friday, 30 July 2010

Why submit to IUI?

The series of annual conferences on Intelligent User Interfaces is the principal international forum for the presentation and discussion of outstanding research and applications involving intelligent user interfaces. Its proceedings, which are available both as hard copy and via the ACM Digital Library, are widely read and cited.

The central track of the technical program comprises plenary presentation of full-length papers, which are selected by the program committee after in-depth analysis and discussion. A complementary set of short paper presentations and demos stimulates discussion on work in progress. As a single track conference, you don't have to miss anything.

The conference experience also includes a variety of other activities: workshops, invited talks by leading figures, and an occasional panel. Just as important are the lively informal discussions that are encouraged by the fact that most of the conference events are attended by all of the participants.

The IUI conference gives you a chance to present and to see work in an intimate, focused, no-nonsense event. It is large enough to be diverse and lively (we expect around 200 people), but small enough to avoid the impersonal atmosphere of conferences with thousands of people.

IUI 2011 encourages submissions from those who have done relevant work but who have not previously submitted to an IUI conference. In case of doubt about the relevance of your work, do not hesitate to ask the program chairs (papers2011@iuiconf.org) for advice.

The vast majority of the attendees are actively involved with conceiving and developing cutting-edge interfaces leading to a high and fast impact of research results presented at IUI. It brings together people from academics, industry, and nonprofits.

Conference Co-Chairs:

Pearl Pu (EPFL, Switzerland)

Michael Pazzani (Rutgers University, USA). chair2011 at iuiconf.org

Program Co-chairs:

Elisabeth André (Univ. of Augsburg, Germany)

Doug Riecken (IBM, USA)

papers2011 at iuiconf.org

Workshop Co-Chairs:

Joyce Chai (Michigan State University, USA)

Shlomo Berkovsky (CSIRO, Australia)

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Demonstrations Chair:

Li Chen (Baptist University, Hong Kong)

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Treasurer:

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Publicity Chair:

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