IUI 2014

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2014 INTERNATIONAL CONFERENCE ON INTELLIGENT USER INTERFACES

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IUI 2014 is the 19th annual meeting of the intelligent interfaces community and serves as the principal international forum for reporting outstanding research and development of 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.

Submission Venues

Full and Short Papers

We invite original paper submissions that describe novel user interfaces, applications, interactive and intelligent technologies, empirical studies, or design techniques. Accepted papers will be published in the ACM Digital Library. IUI 2014 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.

Full papers should make substantial, novel and relevant contributions to the field. Short papers can either contain smaller contributions, novel ground-breaking ideas, or work in progress. Accepted full papers will be invited for oral presentation and short papers will be presented orally or as posters.

Demonstrations

The demonstrations track complements the overall program of the conference. Demonstrations show implementations of novel and interesting 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. All submissions are intended to convey scientific results or work in progress and should not be advertisements for commercial software packages.

Industrial Track

The industrial track represents an opportunity for the companies to present their late works (as presentations, posters or interactive demos) and to receive valuable feedback from the research community. It also provides an opportunity for recruitment and networking. Submissions in the form of 1-page expression of interested proponents are welcome before November 15, 2013. The industry track will not be peer-reviewed but the relevance of proposals for the field will be judged by a jury. Submissions should be sent to the industry chairs address and contain a short description of the company highlighting the relevance in the fields of AI and UI together with a short description of the talk or the demo.

Workshops

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.

Student Consortium

The IUI 2014 Student Consortium provides an opportunity for students to present and receive feedback about their research in an interdisciplinary workshop, under the guidance of a panel of mentors, selected from senior people in the field. We invite students to apply for this unique opportunity to share their work with students in a similar situation as well as senior researchers in the field.

Important Dates

Papers: (abstracts)	October 4, 2013
(final papers)	October 9, 2013
Demonstrations:	December 12, 2013
Workshops:	September 16, 2013
Student Consortium:	November 1, 2013
Industrial Track:	Contact track chairs

Topics

User input
Processing of multi-modal input
Natural language and speech processing
Gestures, eye gaze, 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 and Persuasive Technologies
Intelligent assistants for complex tasks
Support for collaboration in multiuser environments
Intelligent information and knowledge management
Persuasive technologies in IUI

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

AI Techniques in IUI
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