Announcement

Workshop on Perceptual User Interfaces

October 20-21, 1997

The Banff Rocky Mountain Resort, Banff, Alberta, Canada

http://www.research.microsoft.com/PUIWorkshop/

Human-computer interaction has not fundamentally changed for nearly two decades. Most users are still limited to interacting with computers via keyboards and pointing devices. However an increasing number of researchers in various areas of computer science are developing technologies to add perceptual capabilities such as speech and vision to the human-computer interface. Such ***perceptual user interfaces*** are likely to be the next major paradigm in human-computer interaction.

The purpose of this workshop is to bring together researchers from academia and industry pursuing research in vision, speech, user interfaces, machine learning, and user modeling, with common interests in making human-computer interaction more natural and compelling by integrating perceptual input into the user interface. The intimate size, focus on discussion, and comfortable surroundings will make this workshop an ideal opportunity to exchange ideas, share research results and learn about the various issues and technologies involved in creating the next generation of user interfaces.

Topics include speech and sound recognition, visual tracking of people, modeling and recognizing gestures, vision and speech integration, learning about the user, user modeling, integrating multiple sources of information, systems issues associated with perceptual user interfaces. The proceedings will comprise extended abstracts describing original research in areas related to perceptual user interfaces.

The two-day workshop will be structured to facilitate a high degree of interaction. There will be oral and poster presentations of current research, invited talks, panel discussions, and open discussion time. The format is intended to emphasize the interdisciplinary nature of perceptual user interfaces, and to expose the participants to the main issues and challenges in each of the related research areas. The workshop will take place following UIST '97 (User Interface Software and Technology) – workshop participants are encouraged to come early to attend UIST '97 as well.

Invited Speakers:

Andy Van Dam, *Brown University*
Eric Horvitz, *Microsoft Research*
Sandy Pentland, *MIT Media Lab*
Phil Cohen, *Oregon Graduate Institute*

Workshop Co-Chairs:

Matthew Turk, *Microsoft Research*
Yoichi Takebayashi, *Toshiba R&D Center*

Program Committee:

Christian Benoit	Eric Horvitz	George Robertson
Phil Cohen	Kenji Mase	Steven Shafer
Joelle Coutaz	Sharon Oviatt	Chris Schmandt
Jim Crowley	Alex Pentland	Alex Waibel

For updated information concerning the workshop, registration, the Banff area, and the UIST '97 conference, visit the web site: **http://www.research.microsoft.com/PUIWorkshop/**.