Workshop on Perceptual User Interfaces

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Abstract

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.

1. Introduction

The purpose of this workshop is to bring together researchers from academia and industry working 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.

2. Workshop format

The workshop will be held on October 20th and 21st, 1997, at the Banff Rocky Mountain Resort Hotel and Conference Center in Banff, Alberta, Canada, in the heart of the Canadian Rockies. The two-day event will be structured to facilitate a high degree of interaction. There will be oral and poster presentations of current research, as well as invited tutorials, panel discussions, and open discussion time. The program committee will accept presentations based on extended abstracts. The workshop proceedings will comprise these abstracts (rather than full papers). 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.

Meals are included in the registration fee and will be served at the hotel.

3. Information for authors

The proceedings will consist of extended abstracts (not full papers!) of two to four pages long. These extended abstracts should give the general idea of the work to be presented with an appropriate amount of detail. Authors are encouraged to include a pointer to a web or ftp site where readers can view more details or download a more complete version.

Authors whose submissions have been accepted for oral or poster presentation must submit their final version by September 19th, 1997. While preparing the final submission, please take into account comments from your reviews. Submission can be hardcopy (send to *Matthew Turk, Microsoft Research, One Microsoft Way, Redmond, WA 98052-6399*) or Postscript, Adobe Acrobat, or MS Word format (email to pui97@microsoft.com).

All submissions must be formatted for 8.5”x11” paper, with 1” margins on the top and bottom, and 0.75” margins on the left and right sides. The title should be centered in bold face (14-pt Times Roman font preferred), and the body should be in two columns (10-pt Times Roman font preferred, with section headings in 11-pt Times Roman font).

4. Registration

The early registration deadline for the workshop is September 12, 1997. *After this date, registration may be limited due to space considerations.* The workshop registration fee, which includes meals[1], is US$275 (US$200 for full-time students). To register for the workshop and make hotel arrangements, see the instructions in the registration form, available on the web site.

5. Hotel and travel info

The Banff Rocky Mountain Resort in Banff is nestled at the base of picturesque Rundle and Cascade Mountains in the Canadian Rockies, 4 km from downtown Banff. Amenities include a health club, indoor pool, steam room and sauna, squash and tennis courts, indoor and outdoor hot tubs, and chalet-style guest rooms with wood burning fireplaces. A shuttle service is provided to and from downtown Banff.

The hotel rate for the workshop is $95 (Canadian) (approximately US$68), plus a $4 per person hotel service charge, a 5% Alberta hotel tax and a 7% G.S.T. To make hotel reservations for the workshop at the Banff Rocky Mountain Resort, see the registration page.

6. Conclusion

The first Workshop on Perceptual User Interfaces, to be held October 20-21, 1997 in Banff, Alberta, Canada, will be fun and educational for all. Make your reservations now! For more information, see the web site:

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

References

1. Meals covered: Reception, two breakfasts, two lunches, Monday dinner.

2. Buxton, W., “Human skills in interface design,” in *Interacting With Virtual Environments*, ed. by L. MacDonald and J. Vince. New York: Wiley, 1994, pp. 1-12.

3. Card, S. K., Robertson, G. G., Mackinlay, J. D., “The Information Visualizer, an Information Workspace,” Proc. ACM CHI'91 Conference on Human Factors in Computing Systems, 1991, pp. 181-187.

4. Gaver, W. W., “The SonicFinder: An interface that uses auditory icons,” Human-Computer Interaction, 4 (1), 1989, pp. 67-94.