

CFP: Special Issue of Information Processing and Management on Human-Computer Information Retrieval (HCIR)

Submissions due: Midnight Pacific time on Friday, January 6, 2012

Overview

Human-computer information retrieval (HCIR) is the study of information retrieval (IR) techniques that bring human intelligence into the search process. The fields of human-computer interaction (HCI) and IR have both developed innovative techniques to address the challenge of navigating complex information spaces, but their insights have often failed to cross disciplinary boundaries. Human-computer information retrieval has emerged in academic research and industrial practice to bring together research in the fields of IR and HCI, in order to create new kinds of search systems that depend on continuous human control of the search process.

We are guest co-editing a dedicated special topic issue of Information Processing & Management (IP&M) that builds on the increased interest in HCIR, especially in light of the highly-successful HCIR workshops. The target audience is HCIR researchers in academia and industry, practitioners, and others. In addition to an open call for papers, we encourage participants of the 2011 HCIR workshop to submit an article describing their presented research in significantly expanded form. See <http://hcir.info> for more about the HCIR workshop series.

The goals of the special issue are two-fold: (1) foster the design of search systems that support complex problem solving, increase user control and responsibility, facilitate intellectual development, support the full information life cycle, and are engaging and fun to use, and; (2) provide an outlet for significant previously-unpublished research on HCIR. The desired outcome is a set of articles describing complete pieces of work that enhance our knowledge of existing search behaviors, demonstrate through sound experimentation how new interactive tools can assist searchers, or propose and validate new evaluation metrics and methods for HCIR scenarios.

Topics

We solicit high-quality manuscripts that focus on research at the intersection of human-computer interaction and information retrieval. We encourage submissions based on, but not limited to, the following topics:

- Exploratory search, information foraging, and sense-making
- Learning, creativity, and information discovery
- Information visualization and visual analytics
- Interaction techniques and paradigms supporting making meaning from information
- Relevance feedback (including biometrics) and other HCIR control mechanisms
- Description and evaluation of systems supporting the full information life cycle (creation to preservation)
- Integration and adaptation of search systems over time and to individual user needs
- Applications of HCI techniques to information retrieval needs in specific domains
- Frameworks and methodologies for evaluating interactive search systems (e.g., test collections, living laboratories, large-scale user studies, simulations)
- Metrics for interactive search evaluation (e.g., learning, engagement, enjoyment)
- Log analysis of interactive search systems

Note: All submissions are required to include a thorough evaluation and validation of the new ideas they present, described in sufficient detail to facilitate reproducibility where possible. Submissions are also required to emphasize the novelty in their work and clearly state the scientific advances that they make.

(please see over)

Submissions

The deadline for submissions is *midnight Pacific time on Friday, January 6, 2012*.

All contributions should be submitted through the electronic submission system of Information Processing and Management, following the journal guidelines for authors found at <http://www.elsevier.com/locate/infoproman>.

Please upload your document to <http://ees.elsevier.com/ipm> and choose '*Human-Computer Information Retrieval*' as the Article Type.

Guest Editors

- Ryen White, Microsoft Research
- Rob Capra, University of North Carolina at Chapel Hill
- Gene Golovchinsky, FX Palo Alto Laboratory
- Bill Kules, The Catholic University of America
- Dan Russell, Google
- Catherine Smith, Kent State University
- Daniel Tunkelang, LinkedIn

If you have any questions regarding the special issue, such as whether your research would be appropriate for this issue, please contact Ryen White (ryenw@microsoft.com).