Conference Announcement

10th Annual Conference on Uncertainty in Artificial Intelligence

July 29–31, 1994, Seattle, WA, USA

Reasoning under uncertainty is pervasive in all areas of artificial intelligence. The Uncertainty in AI conference is the major forum for advances in the theory and practice of reasoning under uncertainty. We are seeking contributions both from researchers interested in advancing the technology and from practitioners who are using uncertainty techniques in applications.

The tenth annual Conference on Uncertainty in Artificial Intelligence will be devoted to methods for reasoning under uncertainty as applied to problems in artificial intelligence. The conference's scope covers the full range of approaches to automated and interactive reasoning and decision making under uncertainty, including both qualitative and numeric methods.

We seek papers on fundamental theoretical issues, on representational issues, on computational techniques and on applications of uncertain reasoning, using traditional and alternative paradigms of uncertain reasoning. Topics of interest include (but are not limited to):

Methods and Techniques
    foundations of uncertainty concepts,
    representation languages for uncertain knowledge,
    knowledge acquisition,
    construction of uncertainty models from data,
    uncertainty in machine learning,
    automated planning and acting,
    uncertainty in ill-defined environments
    decision making under uncertainty
    algorithms for uncertain inference
    empirical studies of reasoning strategies,
    pooling of uncertain evidence,
    belief updating and inconsistency handling,
    summarization of uncertain information, and
    control of reasoning and real-time architectures.

Applications
    Questions of particular interest include:
        Why was it necessary to represent uncertainty in your domain?
        What kind of uncertainties does your application address?
        Why did you decide to use your particular uncertainty formalism?
        What theoretical problems, if any, did you encounter?
        What practical problems did you encounter?
        Did users of your system find the results or recommendations useful?
        Did your system lead to improvements in reasoning or decision making?
        What methods were used to validate the effectiveness of the systems?
        What did you learn about what was or was not effective in your domain?

Papers will be refereed for originality, significance, technical soundness, and clarity of exposition. Application papers will be judged according to criteria appropriate for application papers, such as

those related to the questions above. Papers may be accepted for presentation in plenary or poster sessions. Some key applications oriented work may be presented both in a plenary session and in a poster session where more technical details can be discussed. All accepted papers will be included in the published proceedings. Outstanding student papers may be selected for special distinction.

Submission of Papers

Five copies of complete papers (hard copy only) should be sent to one of the Program Co-Chairs by February 1 1994. The first page should include a descriptive title, the names, addresses (regular mail and email), and student status of all authors, a brief abstract, and salient keywords or other topic indicators. To aid in finding appropriate reviewers, the title, abstract and keywords should be e-mailed to uai94@cs.ubc.ca. Acceptance notices will be sent by March 31, 1994. Final camera-ready papers, incorporating reviewers' suggestions, will be due approximately four weeks later. There will be an eight-page limit on proceedings papers, with one extra page available for a fee.

Program Co-chairs (paper submissions)

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