



Tenth National Conference on Artificial Intelligence

July 12-17, 1992

Collocated with IAAI-92 in San Jose, California

Sponsored by the American Association for Artificial Intelligence

AAAI-92 is the tenth national conference. The purpose of the conference is to promote research in artificial intelligence (AI) and scientific interchange among AI researchers and practitioners. Papers may represent significant contributions to: (a) the principles underlying cognition, perception, and action in man and machine; (b) the design, application, and evaluation of AI algorithms and systems; and (c) the analysis of domains in which AI systems perform. The focus of the 1992 conference is on the reintegration of AI as a diverse but coherent whole. In service of this, the traditional list of community-based content areas has been replaced by a more neutral set of taxonomies that span the field. Research presented at AAAI-92 should be describable by a small set of topics from these taxonomies. For example, a paper about a case-based legal reasoning system that focuses on how experience is used in reasoning could be described as (reasoning, experience, law). A paper on using learning to increase reactivity in a mobile robot could be described as (reactivity, learning, robotics). A paper proposing a new epistemology for representing the physical world based on an analysis of human brain structure could be described as (representation, physical world, biological).

Each submission should identify one primary function and, if appropriate, one or two descriptors from other categories. Papers identifying more than one function will be expected to present a significant unification of those functions.

Function

Classification, communication, coordination, design, diagnosis, learning, memory, monitoring, perception, planning, problem solving, reactivity, representation, reasoning, robotics, scheduling, etc.

Knowledge

Actions, beliefs, causality, constraints, experience, language, objects, space, time, etc.

Domain

Engineering, law, medicine, manufacturing, physical world, programming, etc.

Foundation

Biological, cognitive, logical, mathematical, philosophical, technological, etc.

Requirements for Submission

Timetable — Authors must submit six (6) complete copies of their papers (hard copy only, we cannot accept computer files) to the AAAI office by January 15, 1992. Papers received after this date will be returned unopened. Notification of receipt will be mailed to the first author (or designated

author) soon after receipt. All inquiries regarding lost papers must be made by January 22, 1992. Notification of acceptance or rejection will be mailed to the first author (or designated author) by February 28, 1992. Camera-ready copy of accepted papers will be due approximately one month later.

Paper Format for Review

Each copy of the paper should be clearly legible. Good quality print is required. (Dot-matrix printout is not acceptable unless truly of letter quality.) Papers should be single-spaced and printed using 12 point type (10 characters/inch for typewriters). On each page of the paper, the text (including figures, tables, and diagrams, but excluding headers and footers) should fit in an area 5.5 by 7.5. (The LaTeX article style with 12 point type conforms to these requirements.)

Length

Authors should restrict the body of their papers to 11 pages, including figures, tables, and diagrams, but not including the bibliography. Papers exceeding the specified length and formatting bounds may be at a significant disadvantage during the reviewing process.

Title page

Each copy of the paper must have a title page (separate from the body of the paper) containing the title of the paper, the names and addresses of all authors, and a short (less than 200 word) abstract. The title page must specify one function, as described above, and any other central descriptors that will help determine which members of the program committee are to review each paper. It is strongly preferable that the topics come from the list above; however, additional topics can be specified, if done with discretion.

Submissions to Multiple Conferences

Papers that are also being submitted to other conferences, whether verbatim or in essence, must have this fact clearly stated on the title page. With the exception of workshops with a specialized focus, papers that appear at other conferences must be withdrawn from AAAI-92. Failure to meet any of the requirements above is grounds for summary rejection, without refereeing.

Review Criteria

Each paper will be stringently reviewed by experts in the areas specified by the description of the paper. Reviewers will evaluate papers along four broad dimensions: significance, originality, validity, and clarity. Questions that will appear on the review form have been reproduced below. Authors

should bear these questions in mind while writing their papers and use them to evaluate their submission:

Significance: How important is the work reported? Does it attack an important/difficult problem or a peripheral /simple one? Does the approach offered advance the state of the art?

Originality: Has this or similar work been previously reported? Are the problems and approaches completely new? Is this a novel combination of familiar techniques? Does the paper point out differences from related research? Is it re-inventing the wheel using new terminology?

Quality: Is the paper technically sound? Does it carefully evaluate the strengths and limitations of its contribution? How are its claims backed up?

Clarity: Is the paper clearly written? Does it motivate the research? Does it describe the inputs, outputs and basic algorithms employed? Does the paper describe previous work? Are the results described and evaluated? Is the paper organized in a logical fashion?

Publication

Accepted papers will be allocated six (6) pages in the conference proceedings. Up to two (2) additional pages may be used at a cost to the authors of \$250 per additional page. Papers exceeding eight pages and those violating the instructions to authors will not be included in the proceedings.

Copyright

Authors will be required to transfer copyright of their paper to AAAI.

Please send papers and conference registration inquiries to:

AAAI-92

American Association
for Artificial Intelligence

445 Burgess Drive

Menlo Park, CA 94025-3496.

Registration and call clarification inquiries (ONLY) may be sent to the CSNET address: NCAI@aaai.org. Please send program suggestions and inquiries to:

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