The Thirteenth Annual Conference on Innovative Applications of Artificial Intelligence (IAAI-2001) will highlight successful applications of AI technology; explore issues, methods, and lessons learned in the development and deployment of AI applications; and promote an interchange of ideas between basic and applied AI. This year’s conference will take place August 7–9, 2001, in Seattle, Washington, collocated with the Seventeenth International Joint Conference on Artificial Intelligence (IJCAI-01).

As in previous conferences, IAAI-2001 will consist of papers in two tracks—(1) deployed application case studies and (2) emerging applications, technology, and issues—supplemented by invited talks and panel discussions.

### Deployed Application Case Study Papers

Case-study papers must describe deployed applications with measurable benefits that include some aspect of AI technology. All areas of AI technology (for example, knowledge-based systems, data mining, vision, speech, natural language, robotics, constraint-based reasoning, etc.) are of interest, either as stand-alone applications or as components of complex systems.

Review criteria are significance, use of AI technology, innovation, content, technical quality, and clarity. Original papers describing applications that have been presented at or submitted to other conferences are welcome. Authors of deployed applications papers will receive the “Innovative Application” Award. We strongly recommend using the following structure as a paper outline to guarantee addressing the review criteria:

#### Title Page:
Each copy of the paper must have a title page, including the title of the paper; the names, affiliations, postal and e-mail addresses, and telephone and fax numbers of all authors; a user point-of-contact for verification of deployment (including telephone and e-mail if possible); a designation of the application domain; identification of the AI techniques employed; the name of the tool(s) or language(s) used; and an abstract of fewer than 200 words.

#### Abstract:
Describe the application of AI technology. What AI technology is integrated with other technology. If a commercial tool is used, explain how AI technology allowed the application to succeed. How were the techniques modified to fit the needs of the application? How is knowledge represented? What is the hardware and software environment in which the system is deployed? Provide examples to illustrate how the system is used.

#### Uses of AI Technology:
On what AI research results does the application depend? What key aspects of AI technology allowed the application to succeed? How were the techniques modified to fit the needs of the application? How was the application adapted? How were the techniques modified to fit the needs of the application? How was the application adapted? How was the application adapted? What are the lessons learned? What, if any, formal development methods were used? What are the benefits do you expect over time? What measurable benefits have resulted from its use? What additional benefits do you expect over time? What impact has it had on the user’s business processes?

#### Application Development and Deployment:
Describe the development and deployment process. How long did they take? How many developers were involved? What were the costs? What were the difficulties, and how were they overcome? What are the lessons learned? What, if any, formal development methods were used? What key aspects of AI technology allowed the application to succeed? How were the techniques modified to fit the needs of the application? How was the application adapted? How was the application adapted? What are the lessons learned? What, if any, formal development methods were used? What are the benefits do you expect over time? What measurable benefits have resulted from its use? What additional benefits do you expect over time? What impact has it had on the user’s business processes?

#### Maintenance:
Describe your experience with and plans for maintenance of the application. Who maintains the application? How often is update needed? Is domain knowledge expected to change over time? How does the design of the application facilitate update?

### Emerging Application, Technology, and Issue Papers

The goal of the emerging application, technology, and issue track is to "bridge the gap" between basic AI research and deployed AI applications, by discussing efforts to apply AI tools, techniques, or methods to real-world problems. This track is distinguished from reports of scientific AI research appropriate for AAAI’s National Conference in that the objective of the efforts reported here should be the engineering of AI applications.

Topics suitable for this track include discussions of prototype applications with performance evaluation data; ongoing efforts to develop large-scale...
or domain-specific knowledge bases or ontologies; development of domain or task-focused tools, techniques, or methods; evaluations of AI tools, techniques or methods for domain suitability; unsuccessful attempts to apply particular tools, techniques or methods to specific domains (which shed insight on the applicability and limitations of the tool, technique or method); system architectures that work; scalability of techniques; integration of AI with other technologies; system/software engineering of intelligent systems; development methodologies; validation and verification; lessons learned; social and other technology transition issues, etc.

Review Criteria: The following questions will appear on the review form for emerging technology, application, and issue papers. Authors are advised to bear these questions in mind while writing their papers. Reviewers will look for papers that meet at least some (although not necessarily all) of the criteria in each category.

Significance: How important is the problem being addressed? Is it a difficult or simple problem? Is it central or peripheral to a category of applications? Is the tool, technique, method, or issue presented generally applicable or domain specific? Does the reported work address a high-value application domain? Does the tool, technique, method, or issue offer the potential for new or more powerful applications of AI?

AI Technology: Does the paper identify AI research needed for a particular application or class of applications? Does the paper characterize the needs of application domains for solutions of particular AI problems? Does the paper evaluate the applicability of an AI tool, technique, or method for an application domain? Does the paper describe AI technology that could enable new or more powerful AI applications?

Innovation: Does the tool, technique, or method advance the state-of-the-art or state-of-the-practice of AI technology? Does the tool, technique, or method address a new or previously reported problem? If it is a previously reported problem, does the tool, technique, or method solve it in a different, new, more effective, or more efficient way? Does the reported work integrate AI with other AI or non-AI technologies in a new way? Does the work provide a new perspective on an application domain? Does the work apply AI to a new domain?

Evaluation: Has the tool, technique, or method been tested on real data? Has it been evaluated by end users? Has it been incorporated into a deployed application? Has it been compared to other competing tools, techniques, or methods?

Content: Does the paper motivate the need for the tool, technique, or method? Does the paper adequately describe the task it performs or the problem it solves? Does it provide technical details about the design and implementation of the tool, technique, or method? Does the paper clearly identify the AI research results on which the tool, technique, or method depends? Does it relate the tool, technique, or method to the needs of application domains? Does it provide insights about the use of AI technology in general or for a particular application domain? Does it describe the development process and costs? Does it discuss estimated or measured benefits? Does it detail the evaluation methodology and results?

Technical Quality: Is the paper technically sound? Does it carefully evaluate the strengths and limitations of its contribution? Are the results described and evaluated? Are its claims backed up? Does it identify and describe relevant previous work?

Clarity: Is the paper clearly written? Is it organized logically? Are there sufficient figures and examples to illustrate the key points? Is the paper accessible to those outside the application domain? Is it accessible to those in other technical specialties?

**Invited Talks and Panels**

Nominations and suggestions for invited talks and panels are welcome and will be considered by the program committee. Invited talks and panels should address issues or themes in the development and deployment of AI applications. Invited speakers should be distinguished members of the research, business, or government communities who have special insights or experiences relating to directions of AI development. Invited speaker nominations should include full contact information, and a preliminary title and abstract of the talk.

Panels should reflect a diversity of viewpoints or interests. Panelists should focus on specific issues such as problems and solutions, technical trade-offs, managerial issues, organizational concerns, and future challenges. Case studies can be used to illustrate the issues, but should not be the principal focus of the panels or invited talks. Panel proposals should include a description of the topic, contact information for the organizer, a moderator and list of participants.

Papers should be 7-12 pages in length. Each panel must indicate clearly in which track it should be considered.

Nominations and suggestions for invited talks, or panel proposals by January 17, 2001 to: