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## Call for Papers

Special Issue of the journal *Artificial Intelligence* on  
“AI & Law”Edwina L. Rissland<sup>a</sup>, Kevin D. Ashley<sup>b</sup>, R. Prescott Loui<sup>c</sup>, Guest Editors<sup>a</sup> *Department of Computer Science, University of Massachusetts, Amherst, MA 01003, USA*<sup>b</sup> *University of Pittsburgh School of Law and Graduate Program in Intelligent Systems,  
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The field of AI & Law uses concepts and tools from artificial intelligence to investigate the law, with the twin goals of better understanding legal reasoning and building tools to support tasks in law. General topics addressed in AI & Law include:

- investigation of legal reasoning and argumentation using computational methods;
- applications of AI and advanced information technology to support legal practice and legal education;
- development and exploration of techniques from AI using law as the example domain.

For instance, AI & Law investigations of legal argumentation have employed techniques from the AI specialties of case-based reasoning, deontic logic, and nonmonotonic reasoning. Early investigations of legal argumentation contributed to the birth of the AI specialty of Case-Based Reasoning. Results of this work have been applied in intelligent tutoring systems that teach law students how to argue with cases. Recent work has tackled the problem of making retrieval of legal information more intelligent by combining AI techniques with those from information retrieval. Over the years, many projects have employed techniques from logic and rule-based reasoning to build computational models and practical tools for areas of administrative and regulatory law. Other projects have explored the very nature of legal rules. The legal domain has been used as an example for the study of concept drift, concept learning, and reasoning by example.

The AI & Law community includes legal scholars, philosophers of jurisprudence, as well as AI researchers. A vibrant international community, it has been meeting on a regular basis since 1987, when the first International Conference on AI and Law was held in Boston.

In this issue, we seek papers on a variety of topics that showcase the visions and accomplishments of the field of AI & Law. Authors are invited to submit papers on topics including but not restricted to:

- computational models of legal reasoning and argumentation;
- legal knowledge-based systems;
- case-based legal reasoning;

- representation of legal and common sense knowledge;
- representation of other norm-governed systems (e.g., professional ethics, institutional policies, or rules of order);
- applications of machine learning to law;
- studies of legal concept development;
- intelligent legal information retrieval;
- automated extraction of information from legal texts;
- intelligent legal tutoring systems;
- advanced judicial support systems;
- advanced legal document drafting systems;
- reasoning with uncertainty in evidential reasoning.

Papers on theoretical issues in AI, jurisprudence or legal philosophy are invited provided that the relevance to AI & Law is clearly demonstrated. Papers on applications should include a description of the nature and purpose of the application, the techniques employed, the current state of the implementation and its use, and results about its evaluation.

### **Submission Information**

Deadline for submission: **August 31, 2001**. All papers should be submitted electronically, preferably in PDF format to:

Jennet Batten, Editors' Assistant, [jennet.batten@eng.ox.ac.uk](mailto:jennet.batten@eng.ox.ac.uk)

Submission guidelines are available on-line at <http://www.elsevier.nl/locate/artint>.

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