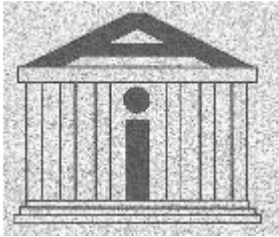


# The 8<sup>th</sup> International Conference on Artificial Intelligence and Law (ICAAIL-2001)

May 21-25, 2001  
Washington University, St. Louis, MO USA

## Program and Registration Guide



Sponsored by:

- The International Association for Artificial Intelligence and Law (IAAIL)
- Washington University, St. Louis (Department of Computer Science, School of Law and the Program in Legal Studies)
- WestGroup, Thomson Legal & Regulatory
- In Cooperation with ACM SIGART and the American Association for Artificial Intelligence (AAAI)

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## Conference Highlights

- Invited Talks:
  - Frederick Schauer, Harvard University: Must Judging Be Interesting?: On the Pitfalls of Designing Rule Systems to Please the Judiciary
  - Benjamin N. Grosz, MIT: Automating Law in the Small: Contracts, Regulations, and Prioritized Argumentation
  - Kevin D. Ashley, University of Pittsburgh: Opportunities and Prospects for Intelligent Tutoring in Legal Education
- Tutorials
  - Introduction to Artificial Intelligence and Law
  - The Extended Markup Language (XML) and Emerging Legal XML Standards
  - Search Strategies for On-line Legal Research: A Primer and a Plea
  - Technical and Legal Issues in E-Commerce: An Intelligent Systems Perspective
- Workshops:
  - Legal Knowledge Systems in Action: Practical AI in today's law offices
  - Artificial Intelligence and Legal Evidence
- Panel Discussion: AI & Law meets Jurisprudence
- Tour of the Old CourtHouse, downtown St. Louis



ICAIL-2001 will be held under the auspices of the International Association for Artificial Intelligence and Law (IAAIL), an organization devoted to promoting research and development in the field of AI and Law with members throughout the world. ICAIL provides a forum for the presentation and discussion of the latest research results and practical applications and stimulates interdisciplinary and international collaboration.

We wish to thank our co-sponsors: The Computer Science Department of Washington University, for its sponsorship of the invited talk by Benjamin Grosf; WestGroup, a division of Thomson Legal and Regulatory, for its sponsorship of the Welcome Reception, and the Washington University School of Law and Legal Studies Program, for their contributions.

### ICAIL-2001 at a glance

	Morning	Afternoon	Evening
Mon., May 21 Eads Hall	ICAIL registration 8:00 a.m. Tutorials 9:00 – 12:45 Introduction to AI and Law XML and Emerging Legal XML Standards	Registration 1:30 – 3:00 Tutorials/Workshop 2:00 – 5:45 On-line Legal Research Issues in E-commerce Legal Knowledge Systems in Action	Welcome Reception & ICAIL registration Womens' Building 6:00 – 8:00 p.m.
Tues., May 22 School of Law	ICAIL registration 8:00 Conference begins 9:00 Paper presentations	Invited Talk: Frederick Schauer Paper presentations Visit to the Old Court House	On your own in downtown St. Louis
Wed., May 23 School of Law	Paper presentations IAAIL Business Mtg.	Invited Talk: Benjamin Grosf Paper Presentations	Banquet at the beautiful Starlight Roof 7:00 p.m.
Thurs., May 24 School of Law	Paper presentations	Invited Talk: Kevin D. Ashley Paper presentations	
Friday, May 25 Eads Hall	Workshop: AI and Legal Evidence	Workshop: AI and Legal Evidence (cont..)	

### Tutorials and Workshops

#### **Tutorial M1. Monday, May 21, 2001, 9:00 a.m. – 12:45 p.m.**

#### **Introduction to Artificial Intelligence and Law by Kevin D. Ashley and Carole D. Hafner**

This tutorial surveys the principal methods for computationally modelling legal reasoning and decision making: direct representation of legal rules, rule-based expert systems, legal ontologies, conceptual retrieval, case-based and analogical models, hybrid systems, and learning from examples. The presenters demonstrate the practical and intellectual contributions each discipline makes to the other: AI changes the way we "do" law and jurisprudence which in turn provide AI with unique opportunities to study cognitive phenomena like argumentation, analogy, and open texture. The tutorial is aimed at anyone with a basic understanding of information processing systems who wants to learn about the techniques and accomplishments of the AI and Law field.

Kevin D. Ashley is a Professor of Law and Intelligent Systems and a Senior Scientist with the Learning Research and Development Center at the University of Pittsburgh. His work has contributed to artificial intelligence research on case-based and analogical reasoning, argumentation and explanation and the development of instructional and practice computer systems for professionals in case-based domains such as law and ethics. A former National Science Foundation Presidential Young Investigator, Professor Ashley has also been a Visiting Scientist at the Thomas J. Watson Research Center, Yorktown Heights, New York and an associate attorney at White & Case, a large Wall Street law firm. He is a co-editor of the Journal of Artificial Intelligence and Law, and the President of the International Association for Artificial Intelligence and Law.

Carole D. Hafner is an Associate Professor and Director of Information Science Education in the College of Computer Science at Northeastern University. She holds a B.A. degree in economics and a Ph.D. in computer and communication sciences from the University of Michigan, and has been a Senior Research Scientist at General Motors Research Laboratories and a visiting Lecturer at Harvard Law School. Her research has focused on developing and evaluating software and knowledge architectures for natural language understanding and intelligent information retrieval. She was one of the first researchers to apply artificial intelligence to law, creating a conceptual information retrieval system for negotiable instruments law in the late 1970's. In 1987 she was the founder and conference chair of the first ICAIL. More recently, she and her late colleague, law professor Donald Berman, investigated the use of contextual knowledge to improve the effectiveness of case-based legal reasoners. She is the Secretary-Treasurer of the International Association for Artificial Intelligence and Law.

**Tutorial M2. Monday, May 21, 2001, 9:00 a.m. – 12:45 p.m.**

**Extended Markup Language (XML) and Emerging Legal XML Standards by Laurence L. Leff**

XML is a standard for exchanging structured information between heterogeneous software and different organizations. The Gartner Group has estimated that within one year, 70% of the business-to-business electronic commerce will be conducted via XML. Standards determine the formal and content of messages to be exchanged by a particular set of participants. These are specified as Data Type Definitions (DTD's); as each organization's software receives a message, it is decoded using the corresponding DTD. Upon completing the first part of the tutorial, participants will be able to read XML and write DTD's to specify XML to be used in their area of interest. Then, we will see how this has been applied. First, participants will become familiar with commercial XML, as exemplified by purchase orders, price check requests and other material exchanged in business-to-business procurement in the Common Business Language, promulgated by Commerce One, Inc. Then, we will discuss emerging standards from the Legal XML organization, such as the Court Filing XML proposed standard, which is the most advanced toward commercial implementation. Finally, we will review the ongoing work of the Legal XML organization.

Laurence L. Leff, Ph.D., is an associate professor of computer science at Western Illinois University. During his tenure there, he has received substantial industrial funding for projects in varying areas of the computer science discipline. Currently, he develops XML standards and DTD's in association with the Legal XML standards group and the Massachusetts Institute of Technology Electronic Commerce Architecture project and has written Java software to manipulate Legal XML documents.

**Tutorial A1. Monday, May 21, 2001, 2:00 – 5:45 p.m.**

**Search Strategies for Online Legal Research: A Primer and a Plea by Virginia Wise**

Attendees at this conference tend to reflect a wide range of expertise and experience with legal databases. This workshop is designed for those who may know a lot about AI, but not so much about the nuts and bolts of searching legal materials online on Lexis, Westlaw and the Internet. Roughly the first half of the session will be devoted to discussing the search methodologies that presently exist for searching legal databases. After the many deficiencies of the present systems have been revealed in the first half, the second half of the session will be a lively interchange about how AI might contribute to changing the way searches are done or could be done to improve results, and what the barriers might be to implementing such improvements.

Virginia Wise is a Lecturer on Law at the Harvard Law School and Adjunct Professor, Simmons Graduate School of Library and Information Science. Ms. Wise teaches courses in advanced legal research, international, foreign and comparative legal research, legal research for foreign LL.M. students and legal information sources for library science students. Ms. Wise previously taught at the University of Michigan School of Information and Library Studies, Boston University Law School, and as a visiting professor at the University of Washington. She has been a visiting fellow at the Australian National University in Canberra, a consultant on legal information and legal education for the U.S. government in Estonia, Mongolia and South Africa, and a consultant for the United Nations Development Programme in Vietnam.

**Tutorial A2. Monday, May 21, 2001, 2:00 – 5:45 p.m.**

**Technical and Legal Issues in E-commerce: An Intelligent Systems Perspective  
by John Zeleznikow and Andrew Stranieri**

This tutorial is intended to acquaint participants with the application of intelligent systems to e-commerce. Basic infrastructure for e-commerce including internet technology, encryption and electronic payment systems will be outlined. A range of issues that have emerged as challenges to the advancement of e-commerce will be presented. These include

human computer interaction issues, security, the retrieval of relevant information, the regulation of intellectual property, automated negotiation and rapid application development of web based programs. A range of current intelligent information system approaches that have been applied to each e-commerce issue will be presented in conjunction with an overview of relevant research projects. For example, intelligent agent architectures have been applied in innovative ways for human computer interaction, negotiation and information retrieval. Knowledge based systems are being developed to facilitate the regulation of copyright law and negotiation approaches based on argumentation frameworks have been applied to enhance the performance of virtual communities. This tutorial will appeal to:

- Researchers familiar with artificial intelligence and law who wish to identify potential applications of their work within the domain of e-commerce.
- Those familiar with web technologies who wish to place technologies currently utilized within e-commerce applications within the context of artificial intelligence and law concepts;
- Lawyers who want to know enough about the nature of the technological infrastructure of e-commerce in order to appreciate how e-commerce issues may evolve given new technological advances
- Some knowledge of both internet technologies and artificial intelligence and law is assumed.

John Zeleznikow, Ph.D., is a Professor of Computer Science and the Director of the Donald Berman Laboratory for Information Technology and Law at LaTrobe University in Australia, and the Director of the Centre for Forensic Statistics and Legal Reasoning, Edinburgh, Scotland. He was the General Chairman of the Sixth International Conference on Artificial Intelligence and Law. He wrote (with Dan Hunter) the text, *Building Intelligent Legal Information Systems: Knowledge Representation and Reasoning in Law*, and (with Andrew Stranieri), *Data Mining in Law*.

Andrew Stanieri, Ph.D., is an Australian Postdoctoral (Industry) research fellow at La Trobe University, and the Deputy Director of the Donald Berman Laboratory for Information Technology and Law. He has applied argumentation and data mining research to a variety of legal domains including family, refugee and intellectual property law.

### **Workshop W1. Monday, May 21, 2001, 2:00 p.m. – 5:45 p.m.** **Legal Knowledge Systems in Action: Practical AI in Today's Law Offices**

<http://www.cs.uu.nl/people/henry/workshop1.html>

Organizers:

Dennis Kennedy, Thompson Coburn, LLP, St. Louis, Missouri, USA

Marc Lauritsen, Capstone Practice Systems, Inc., Harvard, MA and AmeriCounsel.com, Needham, MA USA

Anja Oskamp, Computer/Law Institute, Vrije Universiteit Amsterdam, The Netherlands.

The aim of this workshop is to create a forum for the practical discussion of real-world AI and knowledge management applications by both researchers and practitioners: those who research the possible applications of AI in the legal field, those who actually develop AI tools for legal practice, and those who use (or might use) them. The workshop will include presentations of papers, demonstrations of tools, and a panel discussion with audience participation. Researchers in the field of AI and law, lawyers, publishers, companies that develop specific tools for law practice, consultants, law firm CIOs and law firm administrators are invited to contribute, participate and attend

### **Workshop W2. Friday, May 25, 2001, 9:00 a.m. – 4:00 p.m.** **AI and Legal Evidence**

<http://www.cs.uu.nl/people/henry/workshop2.html>

Organizers:

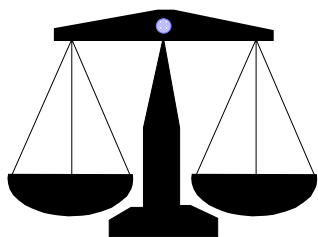
· Ron A. Shapira (chair), Faculty of Law, Bar Ilan University, Ramat Gan, Israel

· Peter Tillers, Benjamin Cardozo of Law, Yeshiva University, New York

· Giovanni Sartor, Faculty of Law, University of Bologna, and School of Law, University of Belfast

This workshop is intended to bring together legal scholars and AI researchers interested in computational models of evidential reasoning, reasoning with uncertainty in evidential reasoning and evidence-gathering and investigation algorithms and advanced technologies. The workshop will be informal, aiming to bring different communities together, in order to identify common research interests and opportunities for interdisciplinary research.

## Main Conference Events



### **“Must Judging Be Interesting?: On the Pitfalls of Designing Rule Systems to Please the Judiciary” invited talk by Frederick Schauer**

Frederick Schauer is Academic Dean and Frank Stanton Professor of the First Amendment at the John F. Kennedy School of Government, Harvard University. Formerly Professor of Law at the University of Michigan, he is the author or co-author of five books including and more than 100 articles on legal theory, legal reasoning, constitutional law, and freedom of speech and press in legal and philosophical journals. His work has been the subject of numerous commentaries, including four law review symposia and a book devoted exclusively to

commentaries on his scholarly contributions. Formerly Chair of the Association of American Law Schools Section on Constitutional Law, he has been Vice-President of the American Society for Political and Legal Philosophy, is a Fellow of the American Academy of Arts and Sciences, and is a founding Co-Editor of the journal *Legal Theory*. He holds an A.B. and M.B.A. degrees from Dartmouth College and a J.D. from the Harvard Law School.

### **“Automating Law in the Small: Contracts, Regulations, and Prioritized Argumentation” invited talk by Benjamin N. Grosof**

Benjamin N. Grosof is Assistant Professor in Information Technology at the MIT Sloan School of Management. He studies how to automate Web e-commerce more intelligently, deeply, and effectively. His research focuses especially on contracting and negotiation, business policies, high-level business communication, knowledge-based electronic markets; and the use for all these of technologies of XML and intelligent software agents. He has extensive industry experience at IBM Research, where he led product releases in business rules for e-commerce and embeddable agents. His B.A. is from Harvard University, and his Ph.D. is from Stanford University in computer science.

### **“Opportunities and Prospects for Intelligent Tutoring in Legal Education” invited talk by Kevin D. Ashley**

Kevin D. Ashley is a Professor of Law and Intelligent Systems and a Senior Scientist with the Learning Research and Development Center at the University of Pittsburgh. His work has contributed to artificial intelligence research on case-based and analogical reasoning, argumentation and explanation and the development of instructional and practice computer systems for professionals in case-based domains such as law and ethics. A former National Science Foundation Presidential Young Investigator, Dr. Ashley has also been a Visiting Scientist at the Thomas J. Watson Research Center, Yorktown Heights, New York and an associate attorney at White & Case, a large Wall Street law firm. He is a co-editor of the *Journal of Artificial Intelligence and Law*, and the President of the International Association for Artificial Intelligence and Law.

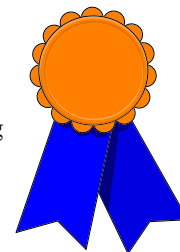
### **“AI & Law Meets Jurisprudence”, panel discussion moderated by L. Thorne McCarty**

#### **Presentations of research papers and research abstracts**

(a full schedule can be found at [www.cs.wustl.edu/icail2001/](http://www.cs.wustl.edu/icail2001/))

## Banquet

The banquet will be held Wednesday, May 23 at 7:00 p.m. in the Starlight Roof at the Chase, offering great views of St. Louis in a glamorous setting. Included in the banquet festivities will be the presentation of the Donald H. Berman Award for the best student ICAIL paper to this year's award winner. The banquet speaker will be Senator Barack Obama, Senior Lecturer at the University of Chicago School of Law in Constitutional Law, and a member of the Illinois state legislature.



## Lodging and Transportation

#### **Conference Hotels:**

Chase Park Plaza, 212-232 North Kingshighway Boulevard (at the corner of Lindell Blvd.)  
St. Louis, MO 63108

Tel: 314-633-3000 Toll-free: 877-587-2427 Fax: 314-633-1144

Studio (kitchen, bedroom, bath): \$119;

Single suites (kitchen, sitting room, bedroom, bath): \$125

Double suites (two bedrooms, two baths, shared kitchen, shared sitting room): \$180

Highly recommended – recently remodeled, suites are large and luxurious, excellent restaurant

Best Western Inn at the Park (\$95 single or double)

4630 Lindell Blvd., St. Louis, MO 63108

Tel. 341-367-7500 Toll-free: 800-373-7501 Fax: 314-367-9015

1 block from the Chase Park Plaza; an above-average inexpensive hotel

Cheshire Inn, Clayton (\$91 single, \$101 double),

6300 Clayton Rd., St. Louis, MO 63117

Tel. 341-647-7300 Toll-free: 800-325-7378 Fax: 314-647-9819

This hotel is a charming faux-English Inn. Its main drawback is that it is a 15 minute walk to Brookings Hall (a 25 min walk to the law school), and not near any public transportation. Since the weather in late May can be quite warm, it is not recommended unless you have a car.

### Transportation

From the airport, a taxi is about \$30.00. You can also take the Metrolink (\$3.00), which has a station in the airport. Go to the Central West End stop, which is 3/4 mile from the Chase Park Plaza (walk about 6 blocks north on Euclid and 1 block east on Lindell). As an alternative to walking, there is a tourist trolley called the "Shuttle Bug" (\$1.25) that stops at the Central West End MetroLink stop every 15 minutes and goes by the rear of the hotel at the corner of Euclid and Lindell. (You want the Eastbound Shuttle going toward St. Louis Cathedral.) A Yahoo map of the immediate area including the Metrolink stop and the hotel can be found by going to [www.bi-state.org/lightmap.htm](http://www.bi-state.org/lightmap.htm) and selecting Central West End.

The conference hotel is about 2.5 miles from Washington University. A free University Shuttle runs every 20 minutes and has a capacity of 25. The pickup is on Lindell directly across Kingshighway Blvd. from the Chase Park Plaza. There are two stops on the university campus. The first stop, Brookings Hall, is at the east end of the university (the Law School is on the west side of campus). The second stop (Edison Theater) is a 3-minute walk from the Law School. There is a good campus map at [www.wustl.edu/tour/hilltop/](http://www.wustl.edu/tour/hilltop/) -- on that map, Eads Hall (tutorials and workshop) is #18, the Women's Building (Welcome Reception) is #38, and the Law School (Main Conference site) is #49. The University Shuttle stops at #1 (Brookings Hall) and #43 (Mallinkrodt Center and Edison Theatre). A city bus, "# 93 Lindell", also stops across from the Chase Park Plaza every 20 minutes. It will make a stop (by request) at the corner of Millbrook Rd. and Big Bend Blvd., a 2-minute walk from the Law School. (This corner is shown on the campus map mentioned above.)

## Organizing Committee

### Conference Chair:

Ronald P. Loui  
Department of Computer Science  
Washington University, St. Louis MO USA  
[loui@cs.wustl.edu](mailto:loui@cs.wustl.edu)

### Program Chair:

Henry Prakken  
Department of Computer Science  
Utrecht Univesity  
3508 TB Utrecht, The Netherlands  
[henry@cs.uu.nl](mailto:henry@cs.uu.nl)

### Secretary-Treasurer

Carole D. Hafner  
College of Computer Science  
Northeastern University  
Boston, MA 02115 USA  
[hafner@ccs.neu.edu](mailto:hafner@ccs.neu.edu)

### Program Committee:

Vincent Alevan	Carnegie Mellon University, USA
Kevin D. Ashley	University of Pittsburgh, USA
Trevor J.M.	
Bench-Capon	University of Liverpool, UK
L. Karl Branting	University of Wyoming, USA
Rosaria Conte	CNR Rome, Italy
Anne Gardner	Stanford, USA
Thomas F. Gordon	GMD Bonn, Germany
Benjamin Grosf	MIT, USA
Carole D. Hafner	Northeastern University, USA
Jaap Hage	Maastricht Univ., The Netherlands
Peter Jackson	West Group, USA
Andrew J.I. Jones	University of Oslo, Norway
Steven Kimbrough	University of Pennsylvania, USA
Ronald P. Loui	Washington University, USA
L. Thorne McCarty	Rutgers University, USA
Anja Oskamp	Free University Amsterdam, The Netherlands
Edwina L. Rissland	University of Massachusetts, USA
Giovanni Sartor	Queen's University of Belfast, UK
Marek J. Sergot	Imperial College London, UK
Andrew Stranieri	La Trobe University, Australia
John Zeleznikow	La Trobe University, Australia

# The 8th International Conference on Artificial Intelligence and Law (ICAAIL-2001) Registration Form

Surname: \_\_\_\_\_ First Name: \_\_\_\_\_

Postal Address: \_\_\_\_\_

\_\_\_\_\_

City/State/Postcode: \_\_\_\_\_ Country: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Affiliation (for ID Badge): \_\_\_\_\_

## Full Conference Registration

(Full conference registration includes all paper sessions and invited talks on Tuesday, May 22 - Thursday May 24, 1 copy of the Proceedings, coffee breaks, 3 lunches, Welcome Reception and Court House tour. Please register for the banquet below.)

	Early (before April 23, 2001)	Late/On-site
Member of IAAIL or ACM	____ \$295	____ \$345
Non-member	____ \$325	____ \$375
Full-time Student	____ \$150	____ \$200

Note: To join IAAIL, use the membership form at  
<http://borneo.gmd.de/iaail/organization/membership.html>

## Special Registration Options:

One-day attendance (Tuesday, Wednesday or Thursday) \_\_\_\_\_ \$150  
 Washington U. Students (paper sessions and invited talks) \_\_\_\_\_ \$ 30

## Banquet Registration

Gala banquet at the glamorous Starlight Roof (Wednesday, May 23)  
 \_\_\_\_\_ Tickets at \$75 each (inclusive): \_\_\_\_\_

*(continued on next page)*

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## Tutorial Registration (Monday, May 21)

	w/ICAAIL registration	Tutorials Only	Full-time Students
Morning Tutorial (choose M1 or M2)	___\$100	___\$150	___\$ 60
Afternoon Tutorial (choose A1 or A2)	___100	___\$150	___\$ 60
Morning and Afternoon Tutorials	___\$160	___\$240	___\$100

If you registered for tutorials, please indicate your choices below:

- M1 "Introduction to AI and Law"  
 M2 "XML and Emerging Legal XML Standards"  
 A1 "Search Strategies for On-line Legal Research"  
 A1 "Technical and Legal Issues in E-Commerce: An AI Perspective"

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## Workshop Registration

	with ICAAIL registration	Workshops Only
W1. Legal Knowledge Systems in Action Monday, May 21	___\$15	___\$75
W2. AI and Legal Evidence Friday, May 25	___\$15	___\$75

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## Method of Payment

**Total Payment Enclosed:** \_\_\_\_\_

**Method of Payment:**

- Check or Money Order in U.S. dollars, payable to: IAAIL  
 Visa or MasterCard  
     Card Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_  
     Card holder's name: \_\_\_\_\_ Signature: \_\_\_\_\_

Please send or FAX this form and your payment to:

*Prof C. Hafner, IAAIL,  
 College of Computer Science  
 Northeastern University  
 Boston, MA 02115 USA  
 hafner@ccs.neu.edu Tel: 617-373-5116 FAX: 617-373-5121*

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