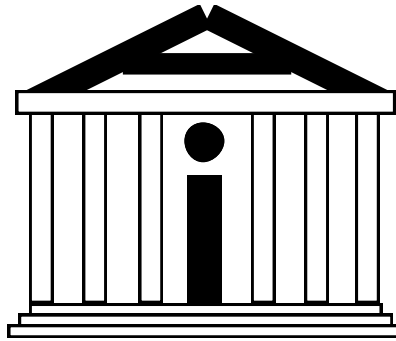


The 12th International Conference on

Artificial Intelligence and Law



June 8 - 12, 2009
Autonomous University of Barcelona
Barcelona, Spain

Program and Schedule of Events

Sponsored By:

International Association for Artificial Intelligence and Law
Catalan Government. Generalitat de Catalunya (2008AGAUR-200028)
UAB Department of Political Science and Public Law
IDT- Institute of Law and Technology (UAB)
Wolters Kluwer La Ley
Ministerio de Ciencia y Tecnología (Spanish Government)
Thomson Reuters

In cooperation with ACM SIGART
In cooperation with AAAI



Invited Speakers

Dr. V. Richard Benjamins, Telefónica R&D, Spain



Richard Benjamins is Director of User Modeling at Telefónica R&D. He holds a Ph.D. in Cognitive Science from the University of Amsterdam. His research interests include knowledge engineering, knowledge management, problem-solving methods and ontologies, diagnosis and planning, and the use of the world-wide web to make knowledge-system technology more widely available. He has published over 100 articles in books, has served on the editorial boards of IEEE Intelligent Systems, Web Semantics (Elsevier), and International Journal on Semantic Web and Information Systems (Idea Group). Dr. Benjamins was formerly Director of Innovation and R&D at Intelligent Software Components (iSOCO) in Madrid.

Dr. Henry Prakken, Department of Information and Computing, Utrecht University, and Faculty of Law, University of Groningen, NL



Henry Prakken is professor of Law and IT at the Law Faculty of the University of Groningen and lecturer in Intelligent Systems at the Computer Science Department at Utrecht University. Prakken has master degrees in law and philosophy from the University of Groningen. In 1993 he obtained his PhD degree (cum laude) at the Free University Amsterdam with a thesis titled Logical Tools for Modelling Legal Argument. His research interests concern logical and computational models of commonsense reasoning and argumentation, and their application to legal reasoning, multi-agent systems and other domains. Since January 1st, 2008 Prakken is President of the International Association for Artificial Intelligence and Law.

Dr. Carles Sierra, Professor at the Artificial Intelligence Research Institute of the Spanish Research Council (IIIA-CSIC), Spain



Carles Sierra received the PhD in Computer Science from the Technical University of Catalonia (UPC), Barcelona, Spain. He is Full Professor of the Spanish National Research Council. His current research interests include: formal methods, multiagent systems, uncertainty, and robotics. Recently, he has been particularly active in the area of electronic institutions, publishing several papers on modelling electronic auctions, and on automatic negotiation models among autonomous agents. He has served the community of agents as general chair of 'Autonomous Agents 2000', co-ordinator of the European Special Interest Group on Agent-mediated Electronic Commerce, and as PC chair of AAMAS 2004. He is an ECCAI Fellow, and a member of the IFAAMAS (International Foundation of Autonomous Agents and Multiagent Systems) and EUMAS (European Conference on Multiagent Systems) boards.

Prof. Ronald W Staudt, Chicago-Kent College of Law, USA



Professor Staudt is a graduate of the University of Chicago Law School, where he was a member of the UNIVERSITY OF CHICAGO LAW REVIEW. Before joining the Chicago-Kent faculty, he practiced with the firm of Hubacheck, Kelly, Rauch & Kirby for two years, was staff attorney and assistant director of the Pima County, Arizona Legal Aid Society, and was a clinical fellow at the Mandel Legal Aid Clinic, University of Chicago Law School. He is associate vice president of law, business and technology and professor of law at Chicago-Kent College of Law. He is director of the Center for Access to Justice & Technology (CAJT) -- a law school center using Internet resources to improve access to justice with emphasis on building Web tools to support legal services advocates, pro bono volunteers and pro se litigants.

Schedule of Events

Monday, 8 June

8:45-15:00, 18:00-19:00 Registration

9:30-13:00 Morning Workshops and Tutorials

Workshop: DESI III: Global E-Discovery/E-Disclosure

Organizers: Kevin D. Ashley, University of Pittsburgh School of Law
Jason R. Baron, National Archives and Records Administration
Jack G. Conrad, Thomson Reuters Research & Development
Marc Light, Thomson Reuters Research & Development
Debra Logan, Gartner Inc. (UK)

Workshop: LOAIT : Legal Ontologies and Artificial Intelligence Techniques

Organizers: Enrico Francesconi , ITTIG-CNR, Florence
Simonetta Montemagni, ILC-CNR, Pisa
Nuria Casellas, UAB Institute of Law and Technology (IDT), Barcelona
Rinke Hoekstra, Leibniz Center for Law, Amsterdam

Tutorial: Enhancing Dispute Resolution through the use of Information Technology

Presenters: Arno Lodder, VU University Amsterdam
John Zeleznikow, Victoria University, Melbourne, Australia

11:00-11:20 Coffee Break

13:00-14:30 Lunch

14:30-18:00 Afternoon Workshops

Workshop: DESI III: Global E-Discovery/E-Disclosure (cont.)

Workshop: LOAIT : Legal Ontologies and Artificial Intelligence Techniques (cont.)

Workshop: Modeling Legal Cases

Organizer: Katie Atkinson, University of Liverpool

Workshop: Privacy and protection in web-based social networks

Organizers: Jaime Delgado (Technical University of Catalonia (UPC), Spain)
Eva Rodríguez (Technical University of Catalonia (UPC), Spain)
Silvia Llorente (Technical University of Catalonia (UPC), Spain)
Víctor Rodríguez (Technical University of Catalonia (UPC), Spain)

16:00-16:20 Coffee Break

18:30-20:00 Welcome Reception and Registration

Tuesday, 9 June

8:45-10:45; 13:00-15:00 Registration

9:15-9:30 Opening Remarks

9:30-11.00 Research Papers: Legal Knowledge Representation and Reasoning

Ontological Requirements for Analogical, Teleological, and Hypothetical Legal Reasoning

Kevin D. Ashley, University of Pittsburgh, USA

Isomorphism and Argumentation

Trevor Bench-Capon, University of Liverpool, UK

Thomas F. Gordon, Fraunhofer FOKUS, Germany

Creating an argumentation corpus: do theories apply to real arguments?

Raquel Mochales and Aagje Ieven, Katholieke Universiteit Leuven, Belgium

11:00-11:30 Coffee Break

11:30-13:00 Research Papers: Text Analysis 1: Natural Language Processing of Legislative Text

A Next Step Toward Automated Modeling of Sources of Law

Emile de Maat and Radboud Winkels, University of Amsterdam, NL

NLP-based Metadata Extraction for Legal Text Consolidation

PierLuigi Spinosa, Gerardo Giardiello, and Manola Cherubini, Institute of Legal Information Theory and Techniques, Florence, Italy

Simone Marchi, Giulia Venturi, and Simonetta Montemagni, Institute of Computational Linguistics, Pisa, Italy

NLP-based Extraction of Modificatory Provisions Semantics

Alessandro Mazzei and Daniele P. Radicioni, Università di Torino, Italy

Raffaella Brighi, Università di Bologna, Italy

13:00-14:30 Lunch

14:30-15:30 Invited Address: Conventions, agreements and trust

Dr. Carles Sierra, Professor at the Artificial Intelligence Research Institute of the Spanish Research Council (IIIA-CSIC)

15:30-16:00 Coffee Break

16:00-17:00 Research Papers: Agents and Norms

Coherence-Driven Argumentation to Norm Consensus

Sindhu Joseph, IIIA-CSIC, Spain

Henry Prakken, Utrecht University and University of Groningen, NL

Formalising Dynamic Protocols for Open Agent Systems

Alexander Artikis, Institute of Informatics & Telecommunications, Greece, and Imperial College, UK

17:00-18:00 Research Abstracts: Evidential Reasoning; Agents and Norms

A Proposal for Evidential Reasoning about Motives

Floris Bex, University of Groningen, NL
Katie Atkinson, University of Liverpool, UK

Plausibility Schemas: Templates for Legal Factfinding

Vern R. Walker, Hofstra University School of Law, USA

Evidence Transmutations: Gathering Admissible Evidence using Belief Revision

Mary-Anne Williams, University of Technology, Sydney, Australia

Abstract Specification of Legal Contracts

Cristian Prisacariu and Gerardo Schneider, University of Oslo, Norway

Supporting of Legal Reasoning for Cases Which are not Strictly Regulated by Law

Tomasz Zurek and Emil Kruk, Maria Curie-Skłodowska University, Poland

Wednesday, 10 June

8:45-10:45, 13:00-15:00 Registration

9:00-10:30 Research Papers: Text Analysis 2: Information Extraction

Improving the Comprehension of Legal Documentation: The Case of Patent Claims

Nadjet Bouayad-Agha, Gerard Casamayor, Gabriela Ferraro, Simon Mille, Vanesa Vidal, and Leo Wanner, Universitat Pompeu Fabra, Barcelona, Spain

Segmentation of Legal Documents

Eneldo Loza Mencía, Knowledge Engineering Group, TU Darmstadt, Germany

*** Argumentation Mining: The Detection, Classification and Structure of Arguments in Text**

Raquel Mochales Palau and Marie-France Moens, Katholieke University Leuven, Belgium

10:30-11:00 Coffee Break

11:00-13:00 Research Papers: Formal Argumentation Frameworks

Why Lawyers Are Nice (or Nasty): A GameTheoretical Argumentation Exercise

Giovanni Sartor, EUI, Florence and CIRSFD, Bologna, Italy
Michel Rudnianski, CNAM and ORT, Paris, France
Antonino Rotolo, CIRSFD, Bologna, Italy
Régis Riveret, University of Aberdeen, UK
Eunate Mayor, EUI, Florence, Italy

Case Law in Extended Argumentation Frameworks

Trevor Bench-Capon, University of Liverpool, UK
Sanjay Modgil, King's College, University of London, UK

Modular Argumentation for Modelling Legal Doctrines of Performance Relief

Phan Minh Dung, Phan Minh Thang, and Nguyen Duy Hung, Asian Institute of Technology, Thailand

Legal Reasoning with Argumentation Schemes

Thomas F. Gordon, Fraunhofer FOKUS, Germany
Douglas Walton, University of Windsor, Canada

* Winner of the Donald H. Berman award for best student paper

13:00-14:30 Lunch

14:30-15:30 IAAIL Presidential Address: "On formal models of legal argument"

Dr. Henry Prakken, Department of Information and Computing, Utrecht University, and Faculty of Law, University of Groningen, NL

15:30-16:00 Coffee Break

16:00-17:00 Research Abstracts: Applications and Tools

Toward Assessing Law Students' Argument Diagrams

Collin Lynch and Kevin Ashley, University of Pittsburgh, USA

Niels Pinkwart, Clausthal Univ of Technology, Germany

Vincent Alaven, Carnegie Mellon University, USA

How much logical structure is helpful in content-based argumentation software for legal case solving?

Stijn Colen, Fokie Cnossen, and Bart Verheij, University of Groningen, NL

Analyzing a Complaint Database by Means of a Genetic-Based Data Mining Algorithm

Jan van Dijk, Sunil Choenni and Frans Leeuw, Ministry of Justice NL

How to capture and use Legal Patterns in IT

Alzbeta Krausova, K.U. Leuven, NL

Fabio Massacci, University of Trento, Italy

E-dossier at the Dutch Council of State - Design, implementation and lessons learned

R.A. Hilhorst and T.M. van Engers, Leibniz Center for Law, NL

Legal Metadata Interchange Framework to Match CEN Metalex

Monica Palmirani, Luca Cervone, and Fabio Vitali, University of Bologna, Italy

17:15-18:00 IAAIL Election and Business Meeting

19:00 Pre-banquet social/cocktail hour – Moncho's, Sala Maremagnum

20:00 Conference Banquet - Moncho's, Sala Maremagnum

Banquet Address: Do semantics matter for Business (in large Corporations)?

Dr. V. Richard Benjamins, Director User Modeling, Telefónica R&D, Spain

Thursday, 11 June

8:45-10:45, 13:00-15:00 Registration

9:00-10:30 Research Papers: Data Mining for Legal Information

Intelligent Hybrid Approach to False Identity Detection

Tossapon Boongoen and Qiang Shen, Aberystwyth University, UK

Integrating Induction and Deduction for Finding Evidence of Discrimination

Dino Pedreschi, Salvatore Ruggieri, and Franco Turini, Università di Pisa, Italy

Query-based Opinion Summarization for Legal Blog Entries

Jack G. Conrad, Jochen L. Leidner, Frank Schilder, and Ravi Kondadadi, Thomson Reuters Corporation, USA

10:30-11:00 Coffee Break

11:00-12:00 Research Papers: Applications and Tools

**Incorporating Issues of Fairness into Development of a Multi-agent
Negotiation Support System**

John Zeleznikow and Brooke Abrahams, Victoria University, Australia

Reasoning with Spatial Plans on the Semantic Web _

Rinke Hoekstra, Radboud Winkels, Erik Hupkes, University of Amsterdam, NL

12:00-13:00 Invited address: Access to Justice and Technology: Law Students, Legal Aid and Courts

Prof. Ronald Staudt, Chicago-Kent College of Law, USA

13:00-14:30 Lunch

14:30-15:30 Research Papers: Legal Document Modeling

Human-Aided Computer Cognition for e-Discovery

Christopher Hogan, Robert Bauer, and Dan Brassil, H5, San Francisco, USA

Toward a General Theory of Document Modeling

Marc Lauritsen Capstone Practice Systems, USA

Thomas F. Gordon, Fraunhofer FOKUS, Germany

15:30-16:00 Coffee Break

16:00 -17:00 Research Abstracts: Legal Text Analysis; Legal Reasoning

**Law as a Seamless Web? Comparison of Various Network Representations of the United States Supreme
Court Corpus (1791-2005)**

Michael J Bommarito II, Daniel Katz, and Jon Zelner, University of Michigan, USA

The Network of French Legal Codes

Pierre Mazzega and Romain Boulet, Université de Toulouse, France

Danièle Bourcier, Université de Paris 2, France

Legal Text Analysis of the Modification Provisions: a Pattern Oriented Approach

Raffaella Brighi and Monica Palmirani, University of Bologna, Italy

Using Critical Questions to Disambiguate and Formalize Statutory Provisions

Matthias Grabmair and Kevin Ashley, University of Pittsburgh, USA

Argumentation Frameworks for Legal Reasoning

Cassia Trojahn and Paulo Quaresma, University of Evora, Portugal

Renata Vieira, Pontifícia Universidade, Brazil

17:15-17:30 Closing Remarks

Friday, 12 June

8:45-10:00 Registration

9:30-13:00 Morning Workshops and Tutorial

Workshop: Natural Language Engineering of Legal Argumentation

Organizers: Adam Wyner, University College London
Tom van Engers, University of Amsterdam

Workshop: Legal and Negotiation Decision Support Systems

Organizers: Uri Schild, Bar Ilan University, Israel
John Zeleznikow, Victoria University, Melbourne

Tutorial: Business Process Compliance

Presenters: Guido Governatori, NICTA Queensland Research Lab, Australia
Marta Indulska, University of Queensland, Australia
Shazia Sadiq, University of Queensland, Australia

11:00-11:20 Coffee Break

13:00-14:30 Lunch

14:30-18:00 Afternoon Workshop

Workshop: Legal and Negotiation Decision Support Systems (cont.)

16:00-16:20 Coffee Break