



## Legal Knowledge and Information Systems

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Editors: A.R. Lodder and L. Mommers

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This book includes papers from the twentieth JURIX conference (first organized in 1988). Over the years JURIX has become more and more international. JURIX is originally a Dutch/Belgian initiative. Nowadays, the conference papers are in majority from non-Dutch authors, and since 2002 JURIX is held outside the Netherlands and Belgium every other year.

Most accepted papers can largely be fitted into either work on argumentation or work on ontology. Argumentation has been a JURIX-topic during all past years, and the interest in ontology has revived recently with Semantic Web initiatives. Topics include Case law, which is approached from different angles, and Automatic Detection of Argumentation in Legal Cases. A contribution is included on recommending techniques, which are novel for the field. Case-based reasoning has been explored in previous volumes and this year, CBR is integrated with argument schemes in two papers.

In the short papers various topics are covered: ontology of the Polish Commercial Companies Code, a methodology for modeling legal workflows, content management and version management of legislation, representation of deadlines, and an ontology for summarizing documents.

### **Contents:**

- Preface/ *A.R. Lodder and L. Mommers*

#### **Invited speakers**

- Judicial Review in Fundamental Rights Cases – How to Provide Guidance to Judges?/ *J.H. Gerards*
- Technology Mediated Dispute Resolution/ *D.A. Larson*

#### **Papers**

- Building an Ontological Support for Multilingual Legislative Drafting/ *T. Agnoloni, L. Bacci, E. Francesconi, P. Spinosa, D. Tiscornia, S. Montemagni and G. Venturi*

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- Proposed XML Standards for Law: MetaLex and LKIF/ *A. Boer, R. Winkels and F. Vitali*
- Codification, Law Article and Graphs/ *D. Bourcier and P. Mazzega*
- Legal Rules and Argumentation in a Metalogic Framework/ *J. Eriksson Lundström, J. Fischer Nilsson and A. Hamfelt*
- A Modular Framework for Ontology-Based Representation of Patent Information/ *M. Giereth, S. Koch, Y. Kompatsiaris, S. Papadopoulos, E. Pianta, L. Serafini and L. Wanner*
- Extending the Power of Automated Legal Drafting Technology/ *C.D. Hafner and M. Lauritsen*
- Computer Intelligent Support for the ADR/ODR Domain/ *S. Junqueira and E. Costa*
- Categorisation of Norms/ *E. De Maat and R. Winkels*
- Study on Sentence Relations in the Automatic Detection of Argumentation in Legal Cases/ *R. Mochales-Palau and M-F. Moens*
- Success Chances in Argument Games: A Probabilistic Approach to Legal Disputes/ *R. Riveret, A. Rotolo, G. Sartor, H. Prakken and B. Roth*
- Beyond Boxes and Arrows: Argumentation Support in Terms of the Knowledge Structure of a Legal Topic/ *M. Schweers and B. Verheij*
- Legislative Information Websites: Designing Beyond Transparency/ *A.L. Washington and J.C. Griffith*
- Explaining the Relevance of Court Decisions to Laymen/ *G.R. Wildeboer, M.C.A. Klein and E.M. Uijttenbroek*
- Argument Schemes for Legal Case-Based Reasoning/ *A. Wyner and T. Bench-Capon*
- Arguments, Values and Baseballs: Representation of Popov v. Hayashi/ *A. Wyner, T. Bench-Capon and K. Atkinson*

#### Short papers

- Reasoning Using Polish Commercial Companies Code Ontology/ *W. Abramowicz, P. Stolarski and T. Tomaszewski*
- Designing a Modelling Methodology for Legal Workflows/ *I. Alamillo, D. Martinez, P. Seltsikas and N. Papas*
- The Development of a Content Management System for Environmental Legislation Based on Version Management/ *G. De Meyer and G. Van Eetvelde*
- On the Representation of Deadlines in a Rental Agreement/ *G. Governatori, J. Hulstijn, R. Riveret and A. Rotolo*
- Using Legal Ontology for Query Enhancement in Generating a Document Summary/ *M. Saravanan, B. Ravindran and S. Raman*

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