

# Contents

Preface	v
<i>Radboud Winkels</i>	
<b>Invited Lectures</b>	
Reasoning About Normative Systems	3
<i>Wiebe van der Hoek</i>	
Written Laws Are Like Spiders Webs	4
<i>John Sheridan</i>	
<b>Full Papers</b>	
Balancing of Legal Principles and Constraint Satisfaction	7
<i>Michał Araszkiewicz</i>	
Sharing Knowledge by Conceptual Mapping: The Case of EU Thesaural Interoperability	17
<i>Giacomo Bartoloni and Enrico Francesconi</i>	
A Lightweight Formal Model of Two-Phase Democratic Deliberation	27
<i>Trevor Bench-Capon and Henry Prakken</i>	
Burdens and Standards of Proof for Inference to the Best Explanation	37
<i>Floris Bex and Douglas Walton</i>	
Generic Problem Solving Tasks and Agent Roles in Public Administration	47
<i>Alexander Boer and Tom van Engers</i>	
Burdens of Proof in Monological Argumentation	57
<i>Guido Governatori and Giovanni Sartor</i>	
Argumentation with Value Judgments – An Example of Hypothetical Reasoning	67
<i>Matthias Grabmair and Kevin D. Ashley</i>	
Case Frames as Contextual Mappings to Case Law in BestPortal	77
<i>Rinke Hoekstra, Arno Lodder and Frank van Harmelen</i>	
Machine Learning Versus Knowledge Based Classification of Legal Texts	87
<i>Emile de Maat, Kai Krabben and Radboud Winkels</i>	
Canonicalizing Complex Case Law Citations	97
<i>Marc van Opijnen</i>	
Representations of Time Within Normative MAS	107
<i>Clara Smith, Antonino Rotolo and Giovanni Sartor</i>	



Semantic Analysis of Paragraphs Consisting of Multiple Sentences – Towards Development of a Logical Formulation System	117
<i>Kenji Takano, Makoto Nakamura, Yoshiko Oyama and Akira Shimazu</i>	
Lexical Semantics and Expert Legal Knowledge Towards the Identification of Legal Case Factors	127
<i>Adam Wyner and Wim Peters</i>	
<b>Short Papers</b>	
A Formal System for Analyzing Conveyances of Property Under the Common Law	139
<i>Shawn J. Bayern</i>	
Interagency Data Exchange Protocols as Computational Data Protection Law	143
<i>William Buchanan, Lu Fan, Alistair Lawson, Burkhard Schafer, Russel Scott, Christoph Thuemmler and Omair Uthmani</i>	
A Legal Decision Support Guide for Owners Corporation Cases	147
<i>Peter Condliffe, Brooke Abrahams and John Zeleznikow</i>	
Model Checking Legal Documents	151
<i>Daniel Gorín, Sergio Mera and Fernando Schapachnik</i>	
Intuitionistic Logic and Legal Ontologies	155
<i>Edward H. Haeusler, Valeria de Paiva and Alexandre Rademaker</i>	
Temporal Dimensions in Rules Modelling	159
<i>Monica Palmirani, Guido Governatori and Giuseppe Contissa</i>	
Update Legal Documents Using Hierarchical Ranking Models and Word Clustering	163
<i>Minh Quang Nhat Pham, Minh Le Nguyen and Akira Shimazu</i>	
Towards Measuring User Query Tendency for Legal Document Retrieval	167
<i>Henok Sahilu and Solomon Atnafu</i>	
An Alternative Method for Computerized Legal Text Restructuring	171
<i>Ermo Täks and Ahti Lohk</i>	
Subject Index	175
Author Index	177