



# **Legal Knowledge Representation**

## **Automatic Text Analysis in Public International and European Law**

Erich Schweighofer

Kluwer Law International

# Legal Knowledge Representation

**A. Boer**



## **Legal Knowledge Representation:**

**Legal Knowledge Representation: Automatic Text Analysis in Public International and European Law** Erich Schweighofer, 1999-10-19 This volume is a presentation of all methods of legal knowledge representation from the point of view of jurisprudence as well as computer science A new method of automatic analysis of legal texts is presented in four case studies Law is seen as an information system with legally formalised information processes The achieved coverage of legal knowledge in information retrieval systems has to be followed by the next step conceptual indexing and automatic analysis of texts Existing approaches of automatic knowledge representations do not have a proper link to the legal language in information systems The concept based model for semi automatic analysis of legal texts provides this necessary connection The knowledge base of descriptors context sensitive rules and meta rules formalises properly all important passages in the text corpora for automatic analysis Statistics and self organising maps give assistance in knowledge acquisition The result of the analysis is organised with automatically generated hypertext links Four case studies show the huge potential but also some drawbacks of this approach

**Neural Networks for Knowledge Representation and Inference** Daniel S. Levine, Manuel Aparicio IV, 2013-04-15 The second published collection based on a conference sponsored by the Metroplex Institute for Neural Dynamics the first is Motivation Emotion and Goal Direction in Neural Networks LEA 1992 this book addresses the controversy between symbolicist artificial intelligence and neural network theory A particular issue is how well neural networks well established for statistical pattern matching can perform the higher cognitive functions that are more often associated with symbolic approaches This controversy has a long history but recently erupted with arguments against the abilities of renewed neural network developments More broadly than other attempts the diverse contributions presented here not only address the theory and implementation of artificial neural networks for higher cognitive functions but also critique the history of assumed epistemologies both neural networks and AI and include several neurobiological studies of human cognition as a real system to guide the further development of artificial ones Organized into four major sections this volume outlines the history of the AI neural network controversy the strengths and weaknesses of both approaches and shows the various capabilities such as generalization and discreteness as being along a broad but common continuum introduces several explicit theoretical structures demonstrating the functional equivalences of neurocomputing with the staple objects of computer science and AI such as sets and graphs shows variants on these types of networks that are applied in a variety of spheres including reasoning from a geographic database legal decision making story comprehension and performing arithmetic operations discusses knowledge representation process in living organisms including evidence from experimental psychology behavioral neurobiology and electroencephalographic responses to sensory stimuli

**Knowledge-Based Systems and Legal Applications** T.J.M. Bench-Capon, 2015-05-11 This book compiles the experience of the largest project in knowledge based systems and the law yet undertaken It provides an in depth introduction to

representation of law in computer programs as well as more advanced discussion and description of large knowledge based systems building legal representation cooperative work and interface design in the context of the project Describes the world's largest KBS and law project Contains an authoritative survey of approaches to legal knowledge representation Outlines several prototype systems Discusses the integration of KBS and law issues with HCI and social implications **Ontology**

**Representation** R. Hoekstra, 2009-07-07 As the famous definition states An ontology is an explicit specification of a conceptualization However an ontology is also a philosophical theory of existence a knowledge management resource a database schema or a type of knowledge representation artefact on the semantic web Over the years the term ontology has been used in so many different ways that one can no longer be sure what is meant by it at any given occasion This book clarifies the role ontologies play in knowledge representation it discusses the distinctions with their use in philosophy gives insight in the features rationale and limitations of the OWL 2 web ontology language and provides a critical review of methodologies and design principles advocated to improve the quality of ontologies It covers both theory and practice of knowledge acquisition representation and ontologies it emphasises human understanding as knowledge structuring principle and demonstrates this approach in the development of a core ontology of basic legal concepts LKIF Core and in the exploration of expressive ontology design patterns for the representation of social reality change and causation actions and transactions In doing so it contributes to a better understanding of the representation of ontologies or rather what it means to do ontology representation *Legal Knowledge and Information Systems* Marie-Francine Moens, Peter Spyns, 2005

e government applications are gaining ground among local national European and international institutions However there is a need for the integration and harmonisation of the models For a marriage between artificial intelligence and e government to happen technologies that automatically extract knowledge from natural language are needed **Computable Models of**

**the Law** Giovanni Sartor, Núria Casellas, Rossella Rubino, 2008-10-02 Information technology has now pervaded the legal sector and the very modern concepts of e law and e justice show that automation processes are ubiquitous European policies on transparency and information society in particular require the use of technology and its steady improvement Some of the revised papers presented in this book originate from a workshop held at the European University Institute of Florence Italy in December 2006 The workshop was devoted to the discussion of the different ways of understanding and explaining contemporary law for the purpose of building computable models of it especially models enabling the development of computer applications for the legal domain During the course of the following year several new contributions provided by a number of ongoing or recently finished European projects on computation and law were received discussed and reviewed to complete the survey This book presents 20 thoroughly refereed revised papers on the hot topics under research in different EU projects legislative XML legal ontologies semantic web search and meta search engines web services system architecture dialectic systems dialogue games multi agent systems MAS legal argumentation legal reasoning e justice and online dispute

resolution The papers are organized in topical sections on knowledge representation ontologies and XML legislative drafting knowledge representation legal ontologies and information retrieval argumentation and legal reasoning normative and multi agent systems and online dispute resolution

*AI Approaches to the Complexity of Legal Systems* Pompeu Casanovas, Ugo Pagallo, Monica Palmirani, Giovanni Sartor, 2014-12-09 This book constitutes revised selected papers from the two International Workshops on Artificial Intelligence Approaches to the Complexity of Legal Systems AICOL IV and AICOL V held in 2013 The first took place as part of the 26th IVR Congress in Belo Horizonte Brazil during July 21 27 2013 the second was held in Bologna as a joint special workshop of JURIX 2013 on December 11 2013 The 19 papers presented in this volume were carefully reviewed and selected for inclusion in this book They are organized in topical sections named social intelligence and legal conceptual models legal theory normative systems and software agents semantic Web technologies legal ontologies and argumentation and crowdsourcing and online dispute resolution ODR

**Legal Ontology Engineering** Núria Casellas, 2011-08-12 Enabling information interoperability fostering legal knowledge usability and reuse enhancing legal information search in short formalizing the complexity of legal knowledge to enhance legal knowledge management are challenging tasks for which different solutions and lines of research have been proposed During the last decade research and applications based on the use of legal ontologies as a technique to represent legal knowledge has raised a very interesting debate about their capacity and limitations to represent conceptual structures in the legal domain Making conceptual legal knowledge explicit would support the development of a web of legal knowledge improve communication create trust and enable and support open data e government and e democracy activities Moreover this explicit knowledge is also relevant to the formalization of software agents and the shaping of virtual institutions and multi agent systems or environments This book explores the use of ontologism in legal knowledge representation for semantically enhanced legal knowledge systems or web based applications In it current methodologies tools and languages used for ontology development are revised and the book includes an exhaustive revision of existing ontologies in the legal domain The development of the Ontology of Professional Judicial Knowledge OPJK is presented as a case study

**AI Approaches to the Complexity of Legal Systems** Ugo Pagallo, Monica Palmirani, Pompeu Casanovas, Giovanni Sartor, Serena Villata, 2018-10-22 This book includes revised selected papers from five International Workshops on Artificial Intelligence Approaches to the Complexity of Legal Systems AICOL VI to AICOL X held during 2015 2017 AICOL VI in Braga Portugal in December 2015 as part of JURIX 2015 AICOL VII at EKAW 2016 in Bologna Italy in November 2016 AICOL VIII in Sophia Antipolis France in December 2016 AICOL IX at ICAIL 2017 in London UK in June 2017 and AICOL X as part of JURIX 2017 in Luxembourg in December 2017 The 37 revised full papers included in this volume were carefully reviewed and selected from 69 submissions They represent a comprehensive picture of the state of the art in legal informatics The papers are organized in six main sections legal philosophy conceptual analysis and epistemic approaches rules and norms analysis and representation legal vocabularies and

natural language processing legal ontologies and semantic annotation legal argumentation and courts adjudication and dispute resolution      Legal Theory, Sources of Law and the Semantic Web Alexander Boer, 2009 Attempts to construct an integrated conceptual framework for the application neutral and problem neutral representation of sources of law using Semantic Web technology and concepts and some technically straightforward extensions to Semantic Web technology based on established practices found in fielded applications      Semantic Intelligence Sarika Jain, Nandana Mihindukulasooriya, Valentina Janev, Cogan Matthew Shimizu, 2024-12-28 This book constitutes refereed proceedings of the 3rd International Semantic Intelligence Conference ISIC 2023 This book covers a wide range of topics including semantic web engineering ontology based data access multimodal and multilingual access machine to machine communications and interoperability knowledge extraction and ontology learning from the web computational paradigms and computational intelligence distributed and mobile systems and many others This book includes novel contributions and the latest developments from researchers across industry and academia This book serves as a valuable reference resource for academics and researchers across the globe      **Innovative Mobile Platform Developments for Electronic Services Design and Delivery** Scupola, Ada, 2012-05-31 In the ever growing world of technology it is becoming more important to understand the developments of new electronic services and mobile applications Innovative Mobile Platform Developments for Electronic Services Design and Delivery is a comprehensive look at all aspects of production management delivery and consumption of e services self services and mobile communication including business to business business to consumer government to business government to consumer and consumer to consumer e services This volume is perfect for the interest of professionals academic educators researchers and industry consultants by providing the latest interdisciplinary research as a new platform for learning and research dissemination      **Representation of Legal Knowledge** George Robert Cross, 1983      **Essays on the Visualisation of Legal Informatics** Vytautas Cyras, Friedrich Lachmayer, 2023-05-18 Both legal scholars and computer scientists will be curious to know how the gap between law and computing can be bridged The law and also jurisprudence is based on language and is mainly textual Every syntactic system has its semantic range and so does language which in law achieves a high degree of professional precision The use of visualisations is a syntactic supplement and opens up a new understanding of legal forms This understanding was reinforced by the paradigm shift from textual law to legal informatics in which visual formal notations are decisive The authors have been dealing with visualisation approaches for a long time and summarise them here for discussion In this book a multiphase transformation from the legal domain to computer code is explored The authors consider law enforcement by computer The target view is that legal machines are legal actors that are capable of triggering institutional facts In the visualisation of statutory law an approach called Structural Legal Visualisation is presented Specifically the visualisation of legal meaning is linked with tertium comparationis the third part of the comparison In a legal documentation system representing one legal source with multiple

documents is viewed as a granularity problem The authors propose to supplement legislative documents ex ante with explicit logic oriented information in the form of a mini thesaurus In contrast to so called strong relations such as synonymy antonymy and hypernymy hyponymy one should consider weak relations 1 dialectical relations a term of dialectical antithesis 2 context relations and 3 metaphorical relations which means the use of metaphors for terms The chapters trace topics such as the distinction between knowledge visualisation and knowledge representation the visualisation of Hans Kelsen s Pure Theory of Law the separation of law and legal science legal subsumption legal relations legal machines encapsulation compliance transparency standard cases and hard cases      Intercultural Collaboration Toru Ishida, Susan R. Fussell, Piek T. J. M. Vossen, 2007-08-13 This book presents 29 revised invited and selected lectures given by top researchers at the First International Workshop on Intercultural Collaboration IWIC 2007 held in Kyoto Japan This state of the art survey increases mutual understanding in our multicultural world by featuring collaboration support social psychological analyses of intercultural interaction and case studies from field workers      *Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches* Yearwood, John, Stranieri, Andrew, 2010-10-31 The information age has enabled unprecedented levels of data to be collected and stored At the same time society and organizations have become increasingly complex Consequently decisions in many facets have become increasingly complex but have the potential to be better informed Technologies for Supporting Reasoning Communities and Collaborative Decision Making Cooperative Approaches includes chapters from diverse fields of enquiry including decision science political science argumentation knowledge management cognitive psychology and business intelligence Each chapter illustrates a perspective on group reasoning that ultimately aims to lead to a greater understanding of reasoning communities and inform technological developments      Legal Theory, Sources of Law and the Semantic Web A. Boer, 2009-05-13 Legal Theory Sources of Law and the Semantic Web is an attempt to construct an integrated conceptual framework for the application neutral and problem neutral representation of sources of law using Semantic Web technology and concepts and some technically straightforward extensions to Semantic Web technology based on established practices found in fielded applications To construct this framework the author disentangled some problems that are often mixed up in legal theory and in extension legal knowledge representation The purpose of this framework is to provide a theoretical background for the creation of reusable and maintainable knowledge components representing knowledge of sources of law on the Semantic Web These components should form a basis for the development for computer applications supporting straightforward routine decision making problems using traditional methods This book aims to be a work of ontology an account of relevant aspects of the knowledge domain of law from the perspective of a legal knowledge engineer interested in sources of law One cannot however say that the result of this work is an ontology this book presents a mix of design principles design patterns for knowledge representation in OWL DL and ontology fragments      **Argument Types and Fallacies in Legal Argumentation** Thomas

Bustamante, Christian Dahlman, 2015-04-07 This book provides theoretical tools for evaluating the soundness of arguments in the context of legal argumentation It deals with a number of general argument types and their particular use in legal argumentation It provides detailed analyses of argument from authority argument ad hominem argument from ignorance slippery slope argument and other general argument types Each of these argument types can be used to construct arguments that are sound as well as arguments that are unsound To evaluate an argument correctly one must be able to distinguish the sound instances of a certain argument type from its unsound instances This book promotes the development of theoretical tools for this task , Logic in the Theory and Practice of Lawmaking Michał Araszkiewicz, Krzysztof Pleszka, 2015-10-05

This book presents the current state of the art regarding the application of logical tools to the problems of theory and practice of lawmaking It shows how contemporary logic may be useful in the analysis of legislation legislative drafting and legal reasoning concerning different contexts of law making Elaborations of the process of law making have variously emphasised its political social or economic aspects Yet despite strong interest in logical analyses of law questions remains about the role of logical tools in law making This volume attempts to bridge that gap or at least to narrow it drawing together some important research problems and some possible solutions as seen through the work of leading contemporary academics The volume encompasses 20 chapters written by authors from 16 countries and it presents diversified views on the understanding of logic from strict mathematical approaches to the informal argumentative ones and differentiated choices concerning the aspects of law making taken into account The book presents a broad set of perspectives insights and results into the emerging field of research devoted to the logical analysis of the area of creation of law How does logic inform lawmaking Are legal systems consistent and complete How can legal rules be represented by means of formal calculi and visualization techniques Does the structure of statutes or of legal systems resemble the structure of deductive systems What are the logical relations between the basic concepts of jurisprudence that constitute the system of law How are theories of legal interpretation relevant to the process of legislation How might the statutory text be analysed by means of contemporary computer programs These and other questions ranging from the theoretical to the immediately practical are addressed in this definitive collection



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