

Law, Governance and Technology Series 1

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# Approaches to Legal Ontologies

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# Approaches To Legal Ontologies Approaches To Legal Ontologies

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## **Approaches To Legal Ontologies Approaches To Legal Ontologies:**

**Approaches to Legal Ontologies** Giovanni Sartor, Pompeu Casanovas, Mariangela Biasiotti, Meritxell Fernández-Barrera, 2010-12-25 The book provides the reader with a unique source regarding the current theoretical landscape in legal ontology engineering as well as on foreseeable future trends for the definition of conceptual structures to enhance the automatic processing and retrieval of legal information in the Semantic Web framework It will thus interest researchers in the domains of the SW legal informatics Artificial Intelligence and law legal theory and legal philosophy as well as developers of e government applications based on the intelligent management of legal or public information to provide both back office and front office support *Law, Ontologies and the Semantic Web* Joost Breuker, 2009 Based on workshops and conferences on Artificial Intelligence AI and Law this work deals with legal ontologies and Semantic Web applications covering both theoretical aspects and practical systems Information Communication Technology Law, Protection and Access Rights: Global Approaches and Issues Portela, Irene Maria, Cruz-Cunha, Maria Manuela, 2010-06-30 This book identifies key issues in the relationship between ICT and law ethics politics and social policy drawing attention to diverse global approaches to the challenges posed by ICT to access rights Provided by publisher *Advances in Enterprise Engineering XIII* David Aveiro, Giancarlo Guizzardi, José Borbinha, 2020-01-03 This book constitutes the proceedings of the 9th Enterprise Engineering Working Conference EEWC 2019 held in Lisbon Portugal May 2019 EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions focusing on the design and engineering of enterprises The goal of EEWC is to stimulate interaction between the different stakeholders scientists as well as practitioners interested in making Enterprise Engineering a reality The 8 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 22 submissions They were organized in topical sections on processes DEMO models and enterprise architecture and blockchain **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 its 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* Pompeu Casanovas, Ugo Pagallo, Giovanni Sartor, Gianmaria Ajani, 2010-10-19. Annotation: This volume assembles 15 refereed and revised papers selected from two workshops organized at the XXIV World Congress of Philosophy of Law and Social Philosophy and at JURIX 09. The papers are organized in sections on language and complex systems in law, ontologies and the representation of legal knowledge, argumentation and logics. *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. *AI Approaches to the Complexity of Legal Systems - Models and Ethical Challenges for Legal Systems, Legal Language and Legal Ontologies, Argumentation and Software Agents* Monica Palmirani, Ugo Pagallo, Pompeu Casanovas, Giovanni Sartor, 2012-11-28. The inspiring idea of this workshop series Artificial Intelligence Approaches to the Complexity of Legal Systems (AICOL) is to develop models of legal knowledge concerning organization, structure and content in order to promote mutual understanding and communication between different systems and cultures. Complexity and complex systems describe recent developments in AI and law, legal theory, argumentation, the Semantic Web and multi-agent systems. Multisystem and multilingual ontologies provide an important opportunity to integrate different trends of research in AI and law, including comparative legal studies. Complexity theory, graph theory, game theory and any other contributions from the mathematical disciplines can help both to formalize the dynamics of legal systems and to capture relations among norms. Cognitive science can help the modeling of legal ontology by taking into account not only the formal features of law but also social behaviour, psychology and cultural factors. This book is thus meant to support scholars in different areas of science in sharing knowledge and methodological approaches. This volume collects the contributions to the workshop's third edition, which took place as part of the 25th IVR congress of Philosophy of Law and Social Philosophy held in Frankfurt, Germany, in August 2011. This volume comprises six main parts devoted to each of the six topics addressed in the workshop: namely, models for the legal system, ethics and the

regulation of ICT legal knowledge management legal information for open access software agent systems in the legal domain as well as legal language and legal ontology

**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

*The Ontology of Cyberspace* David R. Koepsell, 2003-02 This work is an examination of how intellectual property laws should be applied to cyberspace software and other computer mediated creations

**Approaches for Community Decision Making and Collective Reasoning: Knowledge Technology Support** Yearwood, John, Stranieri, Andrew, 2012-06-30 This book focuses on how groups can structure their activities toward making better decisions or in developing technologies for the support of decision making in groups Provided by publisher

**Semantic Processing of Legal Texts** Enrico Francesconi, Simonetta Montemagni, Wim Peters, Daniela Tiscornia, 2010-05-06 Recent years have seen much new research on the interface between artificial intelligence and law looking at issues such as automated legal reasoning This collection of papers represents the state of the art in this fascinating and highly topical field

*Theory and Applications of Ontology: Philosophical Perspectives* Roberto Poli, Johanna Seibt, 2010-08-28 Ontology was once understood to be the philosophical inquiry into the structure of reality the analysis and categorization of what there is Recently however a field called ontology has become part of the rapidly growing research industry in information technology The two fields have more in common than just their name Theory and Applications of Ontology is a two volume anthology that aims to further an informed discussion about the relationship between ontology in philosophy and ontology in information technology It fills an important lacuna in cutting edge research on ontology in both fields supplying stage setting overview articles on history and method presenting directions of current research in either field and highlighting areas of productive interdisciplinary contact Theory and Applications of Ontology Philosophical Perspectives presents ontology in philosophy in ways that computer scientists are not likely to find elsewhere The volume offers an overview of current research traditions in ontology contrasting analytical phenomenological and hermeneutic approaches It introduces the reader to current philosophical research on those categories of everyday and scientific reasoning that are most relevant to present and future research in information technology

*Ontology, Conceptualization and Epistemology for Information Systems, Software Engineering and Service Science* Miguel-Angel Sicilia, Christian Kop, Fabio Sartori, 2010-10-22 This book constitutes the post

proceedings of the International Workshop on Ontology Conceptualization and Epistemology for Information Systems Software Engineering and Service Sciences ONTOSE 2010 held at the CAiSE 2010 conference in Hammamet Tunisia June 2010 The 10 papers presented in this volume were carefully revised and selected from 25 submissions They are grouped in sections on enterprise and service architectures ontology applications ontology visualization and query expansion and ontologies for services

**Advances in Applied Artificial Intelligence** Moonis Ali, Richard Dapoigny, 2006-06-24 This book constitutes the refereed proceedings of the 19th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA AIE 2006 held in Annecy France June 2006 The book presents 134 revised full papers together with 3 invited contributions organized in topical sections on multi agent systems decision support genetic algorithms data mining and knowledge discovery fuzzy logic knowledge engineering machine learning speech recognition systems for real life applications and more

Ontological Engineering Approach of Developing Ontology of Information Science Ahlam F. Sawsaa, 2015-08 Ontology has been a subject of many studies carried out in artificial intelligence AI and information system communities Ontology has become an important component of the semantic web covering a variety of knowledge domains Although building domain ontologies still remains a big challenge with regard to its designing and implementation there are still many areas that need to create ontologies Information Science IS is one of these areas that need a unified ontology model to facilitate information access among the heterogeneous data resources and share a common understanding of the domain knowledge Recently the development of domain ontologies has become increasingly important for knowledge level interoperability and information integration They provide functional features for AI and knowledge representation Domain Ontology is a central foundation of growth for the semantic web that provides a general knowledge for correspondence and communication among heterogeneous systems Particularly with a rise of ontology in the artificial intelligence AI domain it can be seen as an almost inevitable development in computer science and AI in general

**Law and the Semantic Web** V. Richard Benjamins, Pompeu Casanovas, Joost Breuker, Aldo Gangemi, 2005-02-09 by Roberto Cencioni At the Lisbon Summit in March 2000 European heads of state and government set a new goal for the European Union to become the most competitive knowledge based society in the world by 2010 As part of this objective ICT information and communication technologies services should become available for every citizen and for all schools homes and businesses The book you have in front of you is about Semantic Web technology and law Law is something omnipresent all citizens at some points in their lives have to deal with it In addition law involves a large group of professionals and is a multi billion business world wide Information technology is important because it that can improve citizens interaction with law as well as improve legal professionals work environment Legal professionals dedicate a significant amount of their time to finding reading analyzing and synthesizing information in order to take decisions and prepare advice and trials among other tasks As part of the Semantic Based Knowledge and Content Systems Strategic Objective the European Commission is funding

projects to construct technology to make the Semantic Web vision come true 1 The articles in this book are related to two current foci of the Strategic Objective Knowledge acquisition and modelling capturing knowledge from raw information and multimedia content in webs and other distributed repositories to turn poorly structured information into machine processable knowledge *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 **Purely Formal Legal Theory** Ottavio Quirico, 2025-04-16 This book elaborates on deontic logic and network theory to present a reductionist theory of the law disclosing a simple understanding of legal norms based on minimum necessary and sufficient notions The analysis explores the concept of a norm as a claim obligation relation that regulates conduct that is action and inaction among subjects in space and time Based on these five minimum notions the study illustrates legal systems as networks of substantive right duty relations that are procedurally organised according to time The research relies on basic Kripke style semantics as social matrixes to explain fundamental normative concepts and further on network science social network theory and graph theoretic notation based on ties and nodes to elaborate a formal representation of minimum necessary notions and of legal systems as deontic networks The book will be of interest to academics researchers and practitioners working in the areas of legal philosophy legal theory and international law **Advanced Approaches to Intelligent Information and Database Systems** Janusz Sobecki, Veera Boonjing, Suphamit Chittayasothorn, 2014-07-08 This book consists of 35 chapters presenting different theoretical and practical aspects of Intelligent Information and Database Systems Nowadays both Intelligent and Database Systems are applied in most of the areas of human activities which necessitates further research in these areas In this book various interesting issues related to the intelligent information models and methods as well as their advanced applications database systems applications data models and their analysis and digital multimedia methods and applications are presented and discussed both from the practical and theoretical points of view The book is organized in four parts devoted to intelligent systems models and methods intelligent systems advanced applications database systems methods and applications and multimedia systems methods and applications The book will be interesting for practitioners and researchers especially graduate and PhD students of information technology and computer science as well more experienced academics and specialists interested in developing and verification of intelligent information database and multimedia systems models methods and applications The readers of this volume are

enabled to find many inspiring ideas and motivating practical examples that will help them in the current and future work



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