

Reasoning with Rules and Precedents

A Computational Model of Legal Analysis

L. Karl Branting



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Reasoning With Rules And Precedents A Computational Model Of Legal Analysis

Yearwood, John, Stranieri, Andrew



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Reasoning with Rules and Precedents L. Karl Branting, 2013-03-09 Few areas of human expertise are so well understood that they can be completely reduced to general principles Similarly there are few domains in which experience is so extensive that every new problem precisely matches a previous problem whose solution is known When neither rules nor examples are individually sufficient problem solving expertise depends on integrating both This book presents a computational framework for the integration of rules and cases for analytic tasks typified by legal analysis The book uses the framework for integrating cases and rules as a basis for a new model of legal precedents This model explains how the theory under which a case is decided controls the case's precedential effect The framework for integrating rules and cases is implemented in GREBE a system for legal analysis The book presents techniques for representing indexing and comparing complex cases and for converting justification structures based on rules and case into natural language text This book will interest researchers in artificial intelligence particularly those involved in case based reasoning artificial intelligence and law and formal models of argumentation and to scholars in legal philosophy jurisprudence and analogical reasoning

Reasoning with Rules and Precedents Luther Branting, 2014-01-15 [Demystifying Legal Reasoning](#) Larry Alexander, Emily Sherwin, 2008-06-16 Demystifying Legal Reasoning defends the proposition that there are no special forms of reasoning peculiar to law Legal decision makers engage in the same modes of reasoning that all actors use in deciding what to do open ended moral reasoning empirical reasoning and deduction from authoritative rules This book addresses common law reasoning when prior judicial decisions determine the law and interpretation of texts In both areas the popular view that legal decision makers practise special forms of reasoning is false *Artificial Intelligence and Legal Analytics* Kevin D. Ashley, 2017-07-10 This book describes how text analytics and computational models of legal reasoning will improve legal IR and let computers help humans solve legal problems **Legal Knowledge and Information Systems** Thomas F. Gordon, 2004 This volume contains the proceedings of the seventeenth Jurix conference on Legal Knowledge and Information Systems Jurix 2004 which was held at the Harnack Haus of the Max Planck Society in Berlin Germany Although the Jurix conference moved from The Netherlands to Germany almost half of the papers are from The Netherlands Except for a paper from Canada the others are from 5 other countries in Western Europe The effort to extend Jurix beyond The Netherlands and establish it as the leading European conference on legal knowledge systems is making progress The papers in this publication focus on the topics of legal knowledge management and information retrieval legal knowledge acquisition using natural language processing legal ontologies case based reasoning reasoning about evidence and legal reasoning support

Argumentation in Artificial Intelligence Iyad Rahwan, 2009-06-13 Argumentation is all around us Letters to the Editor often make points of controversy and Why is one of the most frequent questions in language asking for reasons behind behaviour And argumentation is more than reasoning in the recesses of single minds since it crucially involves interaction It

cements the coordinated social behaviour that has allowed us in small bands of not particularly physically impressive primates to dominate the planet from the mammoth hunt all the way up to organized science This volume puts argumentation on the map in the field of Artificial Intelligence This theme has been coming for a while and some famous pioneers are chapter authors but we can now see a broader systematic area emerging in the sum of topics and results As a logician I find this intriguing since I see AI as logic continued by other means reminding us of broader views of what my discipline is about Logic arose originally out of reflection on many agent practices of disputation in Greek Antiquity but also in India and China And logicians like me would like to return to this broader agenda of rational agency and intelligent interaction Of course Aristotle also gave us a formal systems methodology that deeply influenced the field and eventually connected up happily with mathematical proof and foundations

Scientific Models of Legal Reasoning Scott Brewer, 2013-10-28 First published in 1998 This five volume series contains some of this century's most influential or thought provoking articles on the subject of legal argument that have appeared in Anglo American philosophy journals and law reviews This volume offers a collection of essays by philosophers and legal scholars on economics artificial intelligence and the physical sciences

Argumentation Methods for Artificial Intelligence in Law Douglas Walton, 2005-09-30 During a recent visit to China to give an invited lecture on legal argumentation I was asked a question about conventional opinion in western countries If legal reasoning is thought to be important by those both inside and outside the legal profession why does there appear to be so little attention given to the study of legal logic This was a hard question to answer I had to admit there were no large or well established centers of legal logic in North America that I could recommend as places to study Going through customs in Vancouver the customs officer asked what I had been doing in China I told him I had been a speaker at a conference He asked what the conference was on I told him legal logic He asked 1 whether there was such a thing He was trying to be funny but I thought he had a good point People will question whether there is such a thing as legal logic and some recent very prominent trials give the question some backing in the common opinion But having thought over the question of why so little attention appears to be given to legal logic as a mainstream subject in western countries I think I now have an answer The answer is that we have been looking in the wrong place

Case-Based Reasoning Research and Development Kevin D. Ashley, Derek Bridge, 2003-08-03 The refereed proceedings of the 5th International Conference on Case Based Reasoning ICCBR 2003 held in Trondheim Norway in June 2003 The 51 revised full papers presented were carefully reviewed and selected from 92 submissions All current aspects of CBR are addressed including case representation similarity retrieval adaptation case library maintenance multi agent collaborative systems data mining soft computing recommender systems knowledge management legal reasoning software reuse and music

Modeling Legal Argument Kevin D. Ashley, 1990 Modeling Legal Argument provides a comprehensive treatment of case based reasoning and a detailed description of a computer program called Hypo that models the way attorneys argue with cases real and hypothetical The program offers

significant advantages over keyword case retrieval systems in the legal field and demonstrates how to design expert systems that assist the user by presenting reasonable alternative answers on all sides of an issue and by citing case examples to explain their advice Hypo analyzes problem situations dealing with trade secrets disputes retrieves relevant legal cases from its database and fashions them into reasonable legal arguments about who should win The arguments demonstrate the program's ability to reason symbolically with past cases to draw factual analogies between cases to cite them in arguments to distinguish them and to pose counter examples and hypotheticals based on past cases Modeling Legal Argument discusses the law as a paradigm of case based argument introduces Hypo and its adversarial reasoning process provides an overview of the Hypo program and gives extended examples of the model's reasoning capabilities It describes the case knowledge base a dimensional index basic mechanisms of case based reasoning and offers a theory of case based argument in Hypo Ashley evaluates Hypo's performance and takes up adversarial case based reasoning beyond the law and extensions of the Hypo model Kevin D Ashley is a Research Scientist at the Learning Research and Development Center and Assistant Professor of Law at the University of Pittsburgh Modeling Legal Argument is included in the Artificial Intelligence and Legal Reasoning series edited by L Thorne McCarty and Edwina L Rissland

Handbook of Legal Reasoning and Argumentation Giorgio Bongiovanni, Gerald Postema, Antonino Rotolo, Giovanni Sartor, Chiara Valentini, Douglas Walton, 2018-07-02 This handbook addresses legal reasoning and argumentation from a logical philosophical and legal perspective The main forms of legal reasoning and argumentation are covered in an exhaustive and critical fashion and are analysed in connection with more general types and problems of reasoning Accordingly the subject matter of the handbook divides in three parts The first one introduces and discusses the basic concepts of practical reasoning The second one discusses the general structures and procedures of reasoning and argumentation that are relevant to legal discourse The third one looks at their instantiations and developments of these aspects of argumentation as they are put to work in the law in different areas and applications of legal reasoning

Information Technology and Lawyers Arno R. Lodder, Anja Oskamp, 2006-02-20 The gap between information technology and the legal profession is narrowing in particular due to the Internet and the richness of legal sources that can be found online This book further bridges the gap by showing people with a legal background what is possible with Information Technology now and in the near future as well as by showing people with an IT background what opportunities exist in the domain of law

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

Precedents and Case-Based Reasoning in the European Court of Justice Marc Jacob, 2014-03-20 Past cases are the European Court of Justice's most prominent tool in making and justifying the rulings and decisions which affect the everyday lives of more than half a billion people Marc Jacob's detailed analysis of the use of

precedents and case based reasoning in the Court uses methods such as doctrinal scholarship empirical research institutional analysis comparative law and legal theory in order to unravel and critique the how and why of the Court's precedent technique In doing so he moves the wider debate beyond received common law versus civil law figments and Eurosceptic versus Euromantic battle lines and also provides a useful blueprint for assessing and comparing the case law practices of other dispute resolution bodies

Rethinking Legal Reasoning Geoffrey Samuel, 2018-08-31 Rethinking legal reasoning seems a bold aim given the large amount of literature devoted to this topic In this thought provoking book Geoffrey Samuel proposes a different way of approaching legal reasoning by examining the topic through the context of legal knowledge epistemology What is it to have knowledge of legal reasoning

New Developments in Legal Reasoning and Logic Shahid Rahman, Matthias Armgardt, Hans Christian Nordtveit Kvernenes, 2021-12-16 This book intends to unite studies in different fields related to the development of the relations between logic law and legal reasoning Combining historical and philosophical studies on legal reasoning in Civil and Common Law and on the often neglected Arabic and Talmudic traditions of jurisprudence this project unites these areas with recent technical developments in computer science This combination has resulted in renewed interest in deontic logic and logic of norms that stems from the interaction between artificial intelligence and law and their applications to these areas of logic The book also aims to motivate and launch a more intense interaction between the historical and philosophical work of Arabic Talmudic and European jurisprudence The publication discusses new insights in the interaction between logic and law and more precisely the study of different answers to the question what role does logic play in legal reasoning Varying perspectives include that of foundational studies such as logical principles and frameworks to applications and historical perspectives

[A Treatise of Legal Philosophy and General Jurisprudence](#) Enrico Pattaro, *Human-Machine Shared Contexts* William Lawless, Ranjeev Mittu, Donald Sofge, 2020-06-10 Human Machine Shared Contexts considers the foundations metrics and applications of human machine systems Editors and authors debate whether machines humans and systems should speak only to each other only to humans or to both and how The book establishes the meaning and operation of shared contexts between humans and machines it also explores how human machine systems affect targeted audiences researchers machines robots users and society as well as future ecosystems composed of humans and machines This book explores how user interventions may improve the context for autonomous machines operating in unfamiliar environments or when experiencing unanticipated events how autonomous machines can be taught to explain contexts by reasoning inferences or causality and decisions to humans relying on intuition and for mutual context how these machines may interdependently affect human awareness teams and society and how these machines may be affected in turn In short can context be mutually constructed and shared between machines and humans The editors are interested in whether shared context follows when machines begin to think or like humans develop subjective states that allow them to monitor and report on their interpretations of reality forcing scientists to rethink the general model

of human social behavior If dependence on machine learning continues or grows the public will also be interested in what happens to context shared by users teams of humans and machines or society when these machines malfunction As scientists and engineers think through this change in human terms the ultimate goal is for AI to advance the performance of autonomous machines and teams of humans and machines for the betterment of society wherever these machines interact with humans or other machines This book will be essential reading for professional industrial and military computer scientists and engineers machine learning ML and artificial intelligence AI scientists and engineers especially those engaged in research on autonomy computational context and human machine shared contexts advanced robotics scientists and engineers scientists working with or interested in data issues for autonomous systems such as with the use of scarce data for training and operations with and without user interventions social psychologists scientists and physical research scientists pursuing models of shared context modelers of the internet of things IOT systems of systems scientists and engineers and economists scientists and engineers working with agent based models ABMs policy specialists concerned with the impact of AI and ML on society and civilization network scientists and engineers applied mathematicians e g holon theory information theory computational linguists and blockchain scientists and engineers Discusses the foundations metrics and applications of human machine systems Considers advances and challenges in the performance of autonomous machines and teams of humans Debates theoretical human machine ecosystem models and what happens when machines malfunction *University of Chicago Law School roundtable* ,2000 **Methods of Legal Reasoning** Jerzy Stelmach,Bartosz Brozek,2006-09-03

Anyone reflecting on the methodology of legal reasoning faces a difficult task The number of methodological theories in jurisprudence and the vast literature on the subject are not the only problems that have to be taken into account Perhaps the most striking difficulty concerning the methodology of legal argument is the heated debate between jurists legal theorists and philosophers of law that has been recurring since at least nineteenth century Therefore a justification is needed for writing yet another book concerning the methods of legal reasoning a book that aims to cover a lot of what has already been proposed in legal theory We believe that there is such a justification First the perspective that we adopt in the present book is unique at least in some respects We venture to look at the methodology of legal reasoning from the outside i e from a more general philosophical perspective while taking into account the hard reality of law This perspective enables us to ask questions about the justification for the methods of legal argument presented Second we do not want to defend one paradigmatic conception of legal reasoning On the contrary we put forward the thesis that there is a plurality of argumentative methods The plurality however does not lead to relativism in legal decision making Third we reject any hierarchy of the methods of legal reasoning and take the view that one can speak only of the precision and flexibility of different methodologies

Reasoning With Rules And Precedents A Computational Model Of Legal Analysis Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Reasoning With Rules And Precedents A Computational Model Of Legal Analysis**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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