

Reasoning with Rules and Precedents

A Computational Model of Legal Analysis

L. Karl Branting



Reasoning With Rules And Precedents A Computational Model Of Legal Analysis

M Carnoy



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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 *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

Information Technology and Lawyers Arno R. Lodder, Anja Oskamp, 2006-03-06 The area of Information Technology and Lawyers is a fascinating one Both from a practical and an academic perspective the opportunities of applying Information Technology to law are tremendous At the same time however lawyers are amongst the most conservative professionals and traditional late adapters of technology Nowadays the gap between Information Technology and Lawyers is closing more and more in particular due to the Internet and the richness of legal sources that can be found online This book provides material to further bridge 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 Any lawyer should read this book about the current practice of IT in the legal domain and what is to be expected in the near future

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

Computational Models of Argument Francesca Toni, Sylwia Polberg, Richard Booth, Martin Caminada, Hiroyuki Kido, 2022-09-15 Argumentation has traditionally been studied across a number of fields notably philosophy cognitive science linguistics and jurisprudence The study of computational models of argumentation is a more recent endeavor bringing together researchers from traditional fields and computer science and engineering within a rich interdisciplinary matrix Computational models of argumentation have been identified and used since the 1980s and more recently an important role

for argumentation in leading to principled decisions has emerged in several settings This book presents the proceedings of COMMA 2022 the 9th International Conference on Computational Models of Argument held in Cardiff Wales United Kingdom during 14-16 September 2022 The book contains 27 regular papers and 16 demo papers from a total of 75 submissions as well as 3 invited talks from Prof Paul Dunne University of Liverpool Prof Iryna Gurevych TU Darmstadt and Prof Antonis Kakas University of Cyprus which reflect the diverse nature of the field Papers are a mix of theoretical and practical contributions theoretical contributions include new formal models the study of formal or computational properties of models design for implemented systems and experimental research practical papers include applications to law machine learning and explainability Abstract and structured accounts of argumentation are covered as are relations between different accounts Many papers focus on the evaluation of arguments or their conclusions given a body of arguments with a continuation of a recent trend to study gradual or probabilistic notions of evaluation The book offers an overview of recent and current research and will be of interest to all those working with computational models of argumentation

University of Chicago Law School roundtable, 2000 **A Treatise of Legal Philosophy and General Jurisprudence** Enrico Pattaro, 2005-05-25 A Treatise of Legal Philosophy and General Jurisprudence is the first ever multivolume treatment of the issues in legal philosophy and general jurisprudence from both a theoretical and a historical perspective The work is aimed at jurists as well as legal and practical philosophers Edited by the renowned theorist Enrico Pattaro and his team this book is a classical reference work that would be of great interest to legal and practical philosophers as well as to jurists and legal scholar at all levels The work is divided The theoretical part published in 2005 consisting of five volumes covers the main topics of the contemporary debate the historical part consisting of six volumes Volumes 6-8 published in 2007 Volumes 9 and 10 published in 2009 Volume 11 published in 2011 and volume 12 forthcoming in 2012 2013 accounts for the development of legal thought from ancient Greek times through the twentieth century The entire set will be completed with an index Volume 1 The Law and the Right a Reappraisal of the Reality that ought to be by Enrico Pattaro This work brings out and recovers the normative dimension of law called the reality that ought to be placing within this reality the idea of what is right Part I reconstructs the current as well as the traditional civil law conception of the reality that ought to be and raises some critical theoretical issues Part II introduces some basic concepts on language and behaviour and presents a conception of norms as beliefs Part III aims to find explanations for the idea of a reality that ought to be Part IV consists of inquiries focussed on Homeric epic the natural law school and the normativistic view of positive law

Case-based Reasoning Research and Development, 2003 Legal Knowledge and Information Systems Georg Borges, Christoph Sorge, 2022-12-15 In recent years interest within the research community and the legal industry regarding technological advances in legal knowledge representation and processing has been growing This relates to areas such as computational models of legal reasoning cybersecurity privacy trust and blockchain methods among other things This book presents the proceedings of JURIX 2022

the 35th International Conference on Legal Knowledge and Information Systems held from 14-16 December in Saarbrücken, Germany under the auspices of the Dutch Foundation for Legal Knowledge Based Systems and hosted by Saarland University. The annual JURIX conference has become an international forum for academics and professionals to exchange knowledge and experiences at the intersection of law and artificial intelligence (AI). For this edition, 62 submissions were received from 163 authors in 24 countries. Following a rigorous review process carried out by a programme committee of 72 experts recognised in the field, 14 submissions were selected for publication as long papers, 22 as short papers and 5 as demo papers, making a total of 41 papers altogether and representing a 22.5% acceptance rate for long papers, 66.1% overall. The broad array of topics covered includes argumentation and legal reasoning, legal ontologies and the semantic web, machine and deep learning and natural language processing for legal knowledge extraction, as well as argument mining, translation of legal texts, defeasible logic, legal compliance, explainable AI, alternative dispute resolution, legal drafting and smart contracts. Providing an overview of recent advances, the book will be of interest to all those working at the interface between the law and AI.

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.

Current Publications in Legal and Related Fields, 2000. **Legal Knowledge and Information Systems** Danièle Bourcier, 2003. The range of topics addressed in this volume is broader than in previous JURIX volumes. All the main legal functions are covered: legal drafting, legal negotiating, legal decision making and legal argumentation. **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 **Computer Power and Legal Language** University of Houston. Program on Law and Technology,1988-12-14 Updated papers from the Second Annual Conference on Law and Technology held June 24 28 1985 at the University of Houston and sponsored by the University of Houston Law Center Program on Law and Technology *Library & Information Science Abstracts* ,2005 *Proceedings of the 2nd International Conference on Artificial Intelligence and Law* ,1989 AALS Mini-workshop on Uses of Technology in Research and Teaching ,1995

Proceedings of the Conference ,1999 *Law and Science* Steven Goldberg, Lawrence Ogalthorpe Gostin,2006 This reader is a spin off publication from Law Science and Medicine Third Edition It gives students a fascinating and stimulating set of readings that introduces them to the way law and science shape society from the use and misuse of genetic information to religion and science to artificial intelligence and beyond This publication gives undergraduates direct and accessible access to the actual cases statutes and articles that shape society e tm s relationship to science The readings on controversial issues esuch as genetic research or creationism vs evolution ewill spark lively discussion and intense intellectual engagement

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