

Reasoning with Rules and Precedents

A Computational Model of Legal Analysis

L. Karl Branting



Springer-Science+Business Media, B.V.

Reasoning With Rules And Precedents A Computational Model Of Legal Analysis

Lei Shi



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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 [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 **Argumentation in Artificial Intelligence** Iyad Rahwan, 2009-06-13 Argumentation is all around us Letters to the Editor often make points of consistency 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 *Argumentation Methods for Artificial Intelligence in Law* Douglas Walton, 2005-06-30 Use of argumentation methods applied to legal reasoning is a relatively new field of study The book provides a survey of the leading problems and outlines how future research using argumentation based methods show great promise of leading to useful solutions The problems studied include not only these of argument

evaluation and argument invention but also analysis of specific kinds of evidence commonly used in law like witness testimony circumstantial evidence forensic evidence and character evidence New tools for analyzing these kinds of evidence are introduced 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 **Case-Based Reasoning Research and**

Development Kevin D. Ashley, 2003-06-11 The International Conference on Case Based Reasoning ICCBR is the preeminent international meeting on case based reasoning CBR ICCBR 2003 <http://www.iccbr.org/iccbr03> is the fifth in this series of biennial international conferences highlighting the most significant contributions to the field of CBR The conference took place from June 23 through June 26 2003 at the Norwegian University of Science and Technology in Trondheim Norway Previous ICCBR conferences have been held in Vancouver Canada 2001 Seon G many 1999 Providence Rhode Island USA 1997 and Sesimbra Portugal 1995 Day 1 of ICCBR 2003 Industry Day provided hands on experiences utilizing CBR in cutting edge knowledge management applications e.g. help desks business and diagnostics Day 2 featured topical workshops on CBR in the healthsciences the impact of life cycle models on CBR systems mixed initiative CBR predicting time series with cases and providing assistance with structured vs unstructured cases Days 3 and 4 comprised presentations and posters on theoretical and applied CBR research and deployed CBR applications as well as invited talks from three distinguished scholars David Leake Indiana University Hector Munoz Avila Lehigh University and Ellen Rilov University of Utah The presentations and posters covered a wide range of CBR topics of interest both to practitioners and researchers 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

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

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

A Treatise of Legal Philosophy and General Jurisprudence Enrico Pattaro, [Explainable Agency in Artificial Intelligence](#) Silvia Tulli, David W. Aha, 2024-01-22 This book focuses on a subtopic of explainable AI XAI called explainable agency EA which involves producing records of decisions made during an agent's reasoning summarizing its behavior in human accessible terms and providing answers to questions about specific choices and the reasons for them We distinguish explainable agency from interpretable machine learning IML another branch of XAI that focuses on providing insight typically for an ML expert

concerning a learned model and its decisions In contrast explainable agency typically involves a broader set of AI enabled techniques systems and stakeholders e g end users where the explanations provided by EA agents are best evaluated in the context of human subject studies The chapters of this book explore the concept of endowing intelligent agents with explainable agency which is crucial for agents to be trusted by humans in critical domains such as finance self driving vehicles and military operations This book presents the work of researchers from a variety of perspectives and describes challenges recent research results lessons learned from applications and recommendations for future research directions in EA The historical perspectives of explainable agency and the importance of interactivity in explainable systems are also discussed Ultimately this book aims to contribute to the successful partnership between humans and AI systems Features

Contributes to the topic of explainable artificial intelligence XAI Focuses on the XAI subtopic of explainable agency Includes an introductory chapter a survey and five other original contributions

Computational Models of Argument F. Toni, S. Polberg, R. Booth, 2022-09-29 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

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

[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 **University of Chicago Law School roundtable**, 2000 **Argumentation Machines** C. Reed, T.J. Norman, 2013-03-09 In the late 1990s AI witnessed an increasing use of the term argumentation within its bounds in natural language processing in user interface design in logic programming and nonmonotonic reasoning in AI's interface with the legal community and in the newly emerging field of multi agent systems It seemed to me that many of these uses of argumentation were inspired by of ten inspired guesswork and that a great majority of the AI community were unaware that there was a maturing rich field of research in Argumentation Theory and Critical Thinking and Informal Logic that had been steadily re building a scholarly approach to the area over the previous twenty years or so Argumentation Theory on its side was developing theories and approaches that many in the field felt could have a role more widely in research and society but were for the most part unaware that AI was one of the best candidates for such application Computational Legal Studies Ryan Whalen, 2020-09-25 Featuring contributions from a diverse set of experts this thought provoking book offers a visionary introduction to the computational turn in law and the resulting emergence of the computational legal studies field It explores how computational data creation collection and analysis techniques are transforming the way in which we comprehend and study the law and the implications that this has for the future of legal studies Case-based Reasoning Janet L. Kolodner, 1988 **Encyclopedia of Computer Science and Technology** Allen Kent, James G. Williams, 1990-05-15 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions *La filosofía del derecho contemporánea* Carla Faralli, 2007-10-01 El trabajo que se ofrece al público de habla hispana corresponde a la actualización de la obra clásica de Guido Fass en tres volúmenes Storia della filosofia del diritto trad Española Madrid Ediciones Pirámide En el mismo se pasa revista a las principales corrientes del pensamiento filosófico jurídico de los últimos treinta años neoconstitucionalismo neoinstitucionalismo Critical Legal Studies análisis económico del derecho estudios sobre la argumentación y sobre la lógica jurídica hasta las nuevas fronteras como la aplicación de la informática al derecho el multiculturalismo y la reflexión sobre la biotica Carla Faralli Roma 1949 es catedrática de Filosofía

del Derecho de la Universidad de Bolonia

Reasoning With Rules And Precedents A Computational Model Of Legal Analysis: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Reasoning With Rules And Precedents A Computational Model Of Legal Analysis : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Reasoning With Rules And Precedents A Computational Model Of Legal Analysis : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Reasoning With Rules And Precedents A Computational Model Of Legal Analysis Introduction

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