

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

Iyad Rahwan



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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 **Computational Modeling and Simulation of Advanced Wireless Communication Systems** Agbotiname Lucky Imoize, Webert Montlouis, Mohammad S. Obaidat, Segun I. Popoola, Mohammad Hammoudeh, 2024-11-29 The book covers the exploitation of computational models for effectively developing and managing large scale wireless communication systems The goal is to create and establish computational models for seamless human interaction and efficient decision making in beyond 5G wireless systems Computational Modeling and Simulation of Advanced Wireless Communication Systems looks to create and establish computational models for seamless human interaction and efficient decision making in the beyond 5G wireless systems This book presents the design and development of several computational modeling techniques and their applications in wireless communication systems It examines shortcomings and limitations of the existing computational models and offers solutions to revamp the traditional architecture toward addressing the vast network issues in wireless systems The book addresses the need to design efficient computational and simulation models to address several issues in wireless communication systems such as interference pathloss delay traffic outage and so forth It discusses how theoretical mathematical and experimental results are integrated for optimal system performance to enhance the quality of service for mobile subscribers Further the book is intended for industry and academic researchers scientists and engineers in the fields of wireless communications and ICTs It is structured to present a practical guide to wireless communication engineers IT practitioners researchers students and other professionals 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](http://www.iccbr.org) 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.

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.

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. Case-Based Reasoning Research and Development David W. Aha, Ian Duncan Watson, 2001-07-18. This book constitutes the refereed proceedings of the 4th International Conference on Case-Based Reasoning (ICCBR 2001) held in Vancouver, BC, Canada, in July/August 2001. The 36 revised full research papers and 14 revised full application papers presented together with 3 invited papers were carefully reviewed and selected from 81 submissions. The papers address all current foundational and theoretical aspects of case-based reasoning as well as advanced applications in a variety of fields.

Case-Based Reasoning Research and Development Ashwin Ram, Nirmalie Wiratunga, 2012-02-04. This book constitutes the refereed proceedings of the 19th International Conference on Case-Based Reasoning held in London, UK, in September 2011. The 32 contributions presented together with 3 invited talks were carefully reviewed and selected from 67 submissions. The presentations and posters covered a wide range of CBR topics of interest both to practitioners and researchers, including CBR methodology covering case representation, similarity retrieval, and adaptation, provenance and maintenance, recommender systems, multi-agent collaborative systems, data mining, time series analysis. Web

applications knowledge management legal reasoning healthcare systems and planning systems **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

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 *A Treatise of Legal Philosophy and General Jurisprudence* Enrico Pattaro, 2007-10-08 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 scholars 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

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

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 **University of Chicago Law School roundtable ,2000** **Case-Based Reasoning Research and Development**

David B. Leake,Enric Plaza,1997-07-09 This book constitutes the refereed proceedings of the Second International Conference on Case Based Reasoning ICCBR 97 held in Providence RI USA in July 1997 The volume presents 39 revised full scientific papers selected from a total of 102 submissions also included are 20 revised application papers Among the topics covered are representation and formalization indexing and retrieval adaptation learning integrated approaches creative reasoning CBR and uncertainty This collection of papers is a comprehensive documentation of the state of the art in CBR research and development Case-based Reasoning Research and Development ,2003 **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 *Case-Based Reasoning Research and Development* Klaus-Dieter Althoff, Ralph Bergmann, L. Karl Branting, 2003-07-31 The biennial International Conference on Case Based Reasoning ICCBR rises which began in Sesimbra Portugal in 1995 was intended to provide an international forum for the best fundamental and applied research in case based reasoning CBR It was hoped that such a forum would encourage the growth and rigor of the field and overcome the previous tendency toward isolated national CBR communities The foresight of the original ICCBR organizers has been rewarded by the growth of a vigorous and cosmopolitan CBR community CBR is now widely recognized as a powerful and important computational technique for a wide range of practical applications By promoting an exchange of ideas among CBR researchers from across the globe the ICCBR series has facilitated the broader acceptance and use of CBR ICCBR 99 has continued this tradition by attracting high quality research and applications papers from around the world Researchers from 21 countries submitted 80 papers to ICCBR 99 From these submissions 17 papers were selected for long oral presentation 7 were accepted for short oral presentation and 19 papers were accepted as posters This volume sets forth these 43 papers which contain both mature work and innovative new ideas **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 rebuilding 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

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