

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

JR Anderson



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

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 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 health sciences, 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 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.

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.

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

Case-Based Reasoning Research and Development

David W. Aha, Ian Watson, 2003-05-15 The 2001 International Conference on Case Based Reasoning ICCBR 2001 www.iccbr.org iccbr01 the fourth in the biennial ICCBR series 1995 in Sesimbra Portugal 1997 in Providence Rhode Island USA 1999 in Seeon Germany was held during 30 July 2 August 2001 in Vancouver Canada ICCBR is the premier international forum for researchers and practitioners of case based reasoning CBR The objectives of this meeting were to nurture significant relevant advances made in this field both in research and application communicate them among all attendees inspire future

advances and continue to support the vision that CBR is a valuable process in many research disciplines both computational and otherwise ICCBR 2001 was the first ICCBR meeting held on the Pacific coast and we used the setting of beautiful Vancouver as an opportunity to enhance participation from the Pacific Rim communities which contributed 28% of the submissions During this meeting we were fortunate to host invited talks by Ralph Bergmann Ken Forbus Jaiwei Han Ramon Lopez de Mntaras and Manuela Veloso Their contributions ensured a stimulating meeting we thank them all *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 **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 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

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 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 soci ety but were for the most part unaware that AI was one of the best candidates for such application *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

La filosofía del derecho contemporánea Carla Faralli,2007-10-01 El trabajo que se ofrece al p blico de habla hispana corresponde a la actualizaci n de la obra cl sica de Guido Fass en tres vol menes Storia della filosof a del diritto trad Espa ola Madrid Ediciones Pir mide En el mismo se pasa revista a las principales corrientes del pensamiento filos fico jur dico de los ltimos treinta a os neoconstitucionalismo neoinstitucionalismo Critical Legal Studies an lisis econ mico del derecho estudios sobre la argumentaci n y sobre la l gica jur dica hasta las nuevas fronteras como la aplicaci n de la inform tica al derecho el multiculturalismo y la reflexi n sobre la bio tica Carla Faralli Roma

1949 es catedrática de Filosofía del Derecho de la Universidad de Bolonia

Case-based Reasoning Research and Development, 2003

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 series 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

SHYSTER: A Pragmatic Legal Expert System James Popple, 1993-04-29

Most legal expert systems attempt to implement complex models of legal reasoning But the utility of a legal expert system lies not in the extent to which it simulates a lawyer's approach to a legal problem but in the quality of its predictions and of its arguments A complex model of legal reasoning is not necessary a successful legal expert system can be based upon a simplified model of legal reasoning Some researchers have based their systems upon a jurisprudential approach to the law yet lawyers are patently able to operate without any jurisprudential insight A useful legal expert system should be capable of producing advice similar to that which one might get from a lawyer so it should operate at the same pragmatic level of abstraction as does a lawyer not at the more philosophical level of jurisprudence A legal expert system called SHYSTER has been developed to demonstrate that a useful legal expert system can be based upon a pragmatic approach to the law SHYSTER has a simple representation structure which simplifies the problem of knowledge acquisition Yet this structure is complex enough for SHYSTER to produce useful advice SHYSTER is a case based legal expert system although it has been designed so that it can be linked with a rule based system to form a hybrid legal expert system Its advice is based upon an examination of and an argument about the similarities and differences between cases SHYSTER attempts to model the way in which lawyers argue with cases but it does not attempt to model the way in which lawyers decide which cases to use in those arguments Instead it employs statistical techniques to quantify the similarity between cases It decides which cases to use in argument and what prediction it will make on the basis of that similarity measure SHYSTER is of a general design it can provide advice in areas of case law that have been specified by a legal expert using a specification language Hence it can operate in different legal domains Four different and disparate areas of law have been

specified for SHYSTER and its operation has been tested in each of those domains Testing of SHYSTER in these four domains indicates that it is exceptionally good at predicting results and fairly good at choosing cases with which to construct its arguments SHYSTER demonstrates the viability of a pragmatic approach to legal expert system design

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