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# Extending Deontic Logic for the Formalisation of Legal Rules

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# Extending Deontic Logic For The Formalisation Of Legal Rules

**Ian Pickup**



## **Extending Deontic Logic For The Formalisation Of Legal Rules:**

Extending Deontic Logic for the Formalisation of Legal Rules Lambèr Royakkers, 2010-10-28 This book describes extensions of deontic logic Deontic logic is a branch of philosophical logic involving reasoning with norms obligations prohibitions and permissions The extensions concern the logical structure of legal rules and legal reasoning Their function is to improve the representation of legal knowledge and enhance deontic logic through increased expressibility The resulting formulas acquire new meanings not expressible in standard deontic logic which are subject to fresh interpretations The author offers an extensive analysis of the representation of actors to whom the norms are directed and authorities who enact the norms Moreover a distinction is made between enactment and applicability A modality of enactment can be used to express inconsistent enacted norms in a consistent way An authority hierarchy is introduced to filter out the applicable norms from the set of enacted norms Some related philosophical questions will be discussed regarding the applications of formalisms that are intrinsic to practical science with respect to consistency and universality The formalisms and applications considered here are relevant for law philosophy and computer science with a special focus on the improvement of legal expert systems and intelligent support for legal professionals

**Extending Deontic Logic for the Formalisation of Legal Rules** Lambèr Royakkers, 2014-03-14

*Extending Deontic Logic for the Formalisation of Legal Rules* L.L. Royakkers, 2013-04-17 This book describes extensions of deontic logic Deontic logic is a branch of philosophical logic involving reasoning with norms obligations prohibitions and permissions The extensions concern the logical structure of legal rules and legal reasoning Their function is to improve the representation of legal knowledge and enhance deontic logic through increased expressibility The resulting formulas acquire new meanings not expressible in standard deontic logic which are subject to fresh interpretations The author offers an extensive analysis of the representation of actors to whom the norms are directed and authorities who enact the norms Moreover a distinction is made between enactment and applicability A modality of enactment can be used to express inconsistent enacted norms in a consistent way An authority hierarchy is introduced to filter out the applicable norms from the set of enacted norms Some related philosophical questions will be discussed regarding the applications of formalisms that are intrinsic to practical science with respect to consistency and universality The formalisms and applications considered here are relevant for law philosophy and computer science with a special focus on the improvement of legal expert systems and intelligent support for legal professionals

*Extending Deontic Logic for the Formalisation of Legal Rules* Lambèr Royakkers, 1998-03-31 This book describes extensions of deontic logic Deontic logic is a branch of philosophical logic involving reasoning with norms obligations prohibitions and permissions The extensions concern the logical structure of legal rules and legal reasoning Their function is to improve the representation of legal knowledge and enhance deontic logic through increased expressibility The resulting formulas acquire new meanings not expressible in standard deontic logic which are subject to fresh interpretations The author offers an

extensive analysis of the representation of actors to whom the norms are directed and authorities who enact the norms Moreover a distinction is made between enactment and applicability A modality of enactment can be used to express inconsistent enacted norms in a consistent way An authority hierarchy is introduced to filter out the applicable norms from the set of enacted norms Some related philosophical questions will be discussed regarding the applications of formalisms that are intrinsic to practical science with respect to consistency and universality The formalisms and applications considered here are relevant for law philosophy and computer science with a special focus on the improvement of legal expert systems and intelligent support for legal professionals

### **Extending Deontic Logic for the Formalisation of Legal Rules**

Lamber M. M. Royakkers,1988      **Deontic Logic and Legal Systems** Pablo E. Navarro,Jorge L. Rodríguez,2014-09-29

Logic and law have a long history in common but the influence has been mostly one sided except perhaps in the 5th and 6th centuries B C where disputes at the market place or in tribunals in Greece seem to have stimulated a lot of reflection among sophistic philosophers on such topics as language and truth Most of the time it was logic that influenced legal thinking but in the last 50 years logicians began to be interested in normative concepts and hence in law      *Rights and Reason* Marilyn

Friedman,Larry May,K. Parsons,J. Stiff,2013-06-29 The papers in this book have been collected in celebration of Carl Wellman who after forty five years is retiring from teaching Here I would like to highlight a few of the moments which have shaped Carl as a person and a philosopher Although his childhood was not unhappy Carl faced considerable challenges growing up in Manchester New Hampshire He ne ver knew his father he and his mother Carolyn had little money and he fought a long battle with Stevens Johnson Syndrome an illness which made him more familiar with hospitals than any young person should be His mother once told me that there were times when the doctors put Carl in his own hospital room because while he was too young to be housed with adult men they did not want the other children to see him die Following a year of physician prescribed rest after high school the doctors recommended the University of Arizona in the misguided hope that the desert climate might improve his health In spite of the doctors hopes life in Tucson was not easy The heat takes its toll on everyone but the desert was especially oppressive for Carl since his unusually sensitive eyes were no match for the intense sun Still Carl enjoyed college      *Constitutional Justice, East and West* Wojciech Sadurski,2002-12-31

How can the power of constitutional judges to overturn parliamentary choices on the basis of their own reading of the constitution be reconciled with fundamental democratic principles which assign the supreme role in the political system to parliaments This time honoured question acquired a new significance when the post communist countries of Central and Eastern Europe without exception adopted constitutional models in which constitutional courts play a very significant role at least in theory Can we learn something about the relationship between democracy and constitutionalism in general from the meteoric rise of constitutional tribunals in the post communist countries Can the discussions and controversies relating to constitutional review which have been going on for decades in more established democracies illuminate the sources of the strength of

constitutional courts in Central and Eastern Europe These questions lie at the center of this book which focuses on the question of constitutional review in postcommunist states from a theoretical and comparative perspective The chapters contained in the book outline the conceptual framework for analyzing the sources the role and the legitimacy of constitutional justice in a system of political democracy From this perspective it assesses the experience of constitutional justice in the West where the model originated and in Central and Eastern Europe where the model has been implanted after the fall of Communism

The Scepter of Reason R. Gargarella, 2012-12-06 It is not unusual that formal and informal discussions about the political system its virtues and its many defects conclude in a discussion about impartiality In fact we all discuss impartiality when we talk about the best way to equally consider all viewpoints We show our concerns with impartiality when facing a particular problem we try to figure out the best solution for all of us given our conflicting interests Thus the quest for impartiality tends to be a common objective for most of us although we normally disagree on its particular contents Generally these formal and informal discussions about impartiality conclude in a dispute between different epistemic conceptions That is to say simply that in these situations we begin to disagree about best procedure to define the more neutral impartial solution for all of us Basically trying to answer this question we tend to fluctuate between two opposite positions According to some the best way to know which is the more impartial solution is to resort to a process of collective reflection in those situations we have to consider the opinions of all those who are possibly affected

*Justice to Future Generations and the Environment* H.P. Visser 't Hooft, 2013-03-09 The analysis of justice between generations proposed in this book is based first of all on a critical reading of Rawls theory of justice but it also pays attention to the existential and cultural context of our intuitions about intergenerational equity Although the desire for justice supplies an independent reason for action the unprecedented character of the context in which that reason must operate necessarily raises the question of its psychological support we want justice for future people but what interest do we have in their welfare in the first place I have tried to capture this double orientation by making use of Thomas Nagel s conceptual dichotomy between the objective detached point of view and the subjective in our case the culturally and historically situated perspective There is on the one hand a desire for justice that tends towards the definition of transhistorical standards detached from the particular values of the time and place there is on the other hand a motivational background that is tied to our present position in history and nourished by the values we presently believe in I have attempted to bridge the gap between the one and the other dimension by different conceptual avenues the principal one being a time related interpretation of Rawls concept of equal liberty justice wants us to maintain the worth of liberty over time by perpetuating the conditions of its meaningful exercise

**Logic in the Theory and Practice of Lawmaking** Michał Araszkiewicz, Krzysztof Pleszka, 2015-10-05 This book presents the current state of the art regarding the application of logical tools to the problems of theory and practice of lawmaking It shows how contemporary logic may be useful in the analysis of

legislation legislative drafting and legal reasoning concerning different contexts of law making Elaborations of the process of law making have variously emphasised its political social or economic aspects Yet despite strong interest in logical analyses of law questions remains about the role of logical tools in law making This volume attempts to bridge that gap or at least to narrow it drawing together some important research problems and some possible solutions as seen through the work of leading contemporary academics The volume encompasses 20 chapters written by authors from 16 countries and it presents diversified views on the understanding of logic from strict mathematical approaches to the informal argumentative ones and differentiated choices concerning the aspects of law making taken into account The book presents a broad set of perspectives insights and results into the emerging field of research devoted to the logical analysis of the area of creation of law How does logic inform lawmaking Are legal systems consistent and complete How can legal rules be represented by means of formal calculi and visualization techniques Does the structure of statutes or of legal systems resemble the structure of deductive systems What are the logical relations between the basic concepts of jurisprudence that constitute the system of law How are theories of legal interpretation relevant to the process of legislation How might the statutory text be analysed by means of contemporary computer programs These and other questions ranging from the theoretical to the immediately practical are addressed in this definitive collection

Artificial Intelligence XLI Max Bramer, Frederic Stahl, 2024-11-28 This two volume set LNAI 15446 and LNAI 15447 constitutes the refereed proceedings of the 44th SGAI International Conference on Artificial Intelligence AI 2024 held in Cambridge UK during December 17 19 2024 The 36 full papers and 18 short papers presented in these two volumes were carefully reviewed and selected from 80 submissions Part I includes papers from the Technical stream whereas Part II includes papers from the Application stream These volumes are organized into the following topical sections Part I Neural nets Deep learning Large language models Machine learning Evolutionary and genetic algorithms Knowledge management Short Technical Papers Part II Machine vision Evaluation of AI systems Applications of machine learning Other AI applications Short Application Papers

**The Invisible Origins of Legal Positivism** W.E. Conklin, 2012-12-06 Conklin's thesis is that the tradition of modern legal positivism beginning with Thomas Hobbes postulated different senses of the invisible as the authorising origin of humanly posited laws Conklin re-reads the tradition by privileging how the canons share a particular understanding of legal language as written Leading philosophers who have espoused the tenets of the tradition have assumed that legal language is written and that the authorising origin of humanly posited rules norms is inaccessible to the written legal language Conklin's re-reading of the tradition teases out how each of these leading philosophers has postulated that the authorising origin of humanly posited laws is an unanalysable externality to the written language of the legal structure As such the authorising origin of posited rules norms is inaccessible or invisible to their written language What is this authorising origin Different forms include an originary author an a priori concept and an immediacy of bonding between person and laws In each case the origin is unwritten in the sense of being inaccessible to

the authoritative texts written by the officials of civil institutions of the sovereign state Conklin sets his thesis in the context of the legal theory of the polis and the pre polis of Greek tribes The author claims that the problem is that the tradition of legal positivism of a modern sovereign state excises the experiential or bodily meanings from the written language of the posited rules norms thereby forgetting the very pre legal authorising origin of the posited norms that each philosopher admits as offering the finality that legal reasoning demands if it is to be authoritative Rhetoric and The Rule of Law Neil MacCormick,2005-07-28 Is legal reasoning rationally persuasive working within a discernible structure and using recognisable kinds of arguments Does it belong to rhetoric in this sense or to the domain of the merely rhetorical in an adversative sense Is there any reasonable certainty about legal outcomes in dispute situations If not what becomes of the Rule of Law Neil MacCormick s book tackles these questions in establishing an overall theory of legal reasoning which shows the essential part legal syllogism plays in reasoning aimed at the application of law while acknowledging that simple deductive reasoning though always necessary is very rarely sufficient to justify a decision There are always problems of relevancy classification or interpretation in relation to both facts and law In justifying conclusions about such problems reasoning has to be universalistic and yet fully sensitive to the particulars of specific cases How is this possible Is legal justification at this level consequentialist in character or principled and right based Both normative coherence and narrative coherence have a part to play in justification and in accounting for the validity of arguments by analogy Looking at such long discussed subjects as precedent and analogy and the interpretative character of the reasoning involved Neil MacCormick expands upon his celebrated Legal Reasoning and Legal Theory OUP 1978 and 1994 and restates his institutional theory of law **The Dynamics of Judicial Proof** Marilyn MacCrimmon,Peter Tillers,2012-12-06 Fact finding in judicial proceedings is a dynamic process This collection of papers considers whether computational methods or other formal logical methods developed in disciplines such as artificial intelligence decision theory and probability theory can facilitate the study and management of dynamic evidentiary and inferential processes in litigation The papers gathered here have several epicenters including i the dynamics of judicial proof ii the relationship between artificial intelligence or formal analysis and common sense iii the logic of factual inference including a the relationship between causality and inference and b the relationship between language and factual inference iv the logic of discovery including the role of abduction and serendipity in the process of investigation and proof of factual matters and v the relationship between decision and inference Perspectives on Universal Logic J. Y. Beziau,Alexandre Costa-Leite,2007 **Handbook of Analytic Philosophy of Medicine** Kazem Sadegh-Zadeh,2015-04-06 Medical practice is practiced morality and clinical research belongs to normative ethics The present book elucidates and advances this thesis by 1 analyzing the structure of medical language knowledge and theories 2 inquiring into the foundations of the clinical encounter 3 introducing the logic and methodology of clinical decision making including artificial intelligence in medicine 4 suggesting comprehensive theories of organism life and psyche of health illness

and disease of etiology diagnosis prognosis prevention and therapy and 5 investigating the moral and metaphysical issues central to medical practice and research Many systems of classical modal non classical probability and fuzzy logic are introduced and applied Fuzzy medical deontics fuzzy medical ontology fuzzy medical concept formation fuzzy medical decision making and biomedicine and many other techniques of fuzzification in medicine are introduced for the first time

**Database and Expert Systems Applications** Trevor Bench-Capon, Giovanni Soda, Min A Tjoa, 1999-08-20 The Database and Expert Systems Applications DEXA conferences bring together researchers and practitioners from all over the world to exchange ideas experiences and opinions in a friendly and stimulating environment The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems DEXA covers a broad field and all aspects of database knowledge base and related technologies and their applications are represented Once again there were a good number of submissions 241 papers were submitted and of these the programme committee selected 103 to be presented DEXA 99 took place in Florence and was the tenth conference in the series following events in Vienna Berlin Valencia Prague Athens London Zurich Toulouse and Vienna The decade has seen many developments in the areas covered by DEXA developments in which DEXA has played its part I would like to express thanks to all the institutions which have actively supported and made possible this conference namely University of Florence Italy IDG CNR Italy FAW University of Linz Austria Austrian Computer Society DEXA Association In addition we must thank all the people who have contributed their time and effort to make the conference possible Special thanks go to Maria Schweikert Technical University of Vienna M Neubauer and G Wagner FAW University of Linz We must also thank all the members of the programme committee whose careful reviews are important to the quality of the conference

**New Advances in Legal Translation and Interpreting** Junfeng Zhao, Defeng Li, Victoria Lai Cheng Lei, 2023-03-02 This book describes interdisciplinary exploration of matters related to the translation and interpreting of legal texts Translation of legal texts has grown exponentially since the beginning of new millennium in response to the fast increasing volume of international trade and business as well as all sorts of other transnational activities in a myriad of spheres International trade demands translation of trade laws and business contracts immigration leads to rise in court interpreting services and countries may seek to enhance their international influence through translating and making known to the world their laws and or other legal documents These legal translation activities occurred mostly between languages officially used in international or regional organizations such as the United Nations and the European Union and between the languages of major countries who exert or seek influence on international economy and law On the other hand rapid advances in computer technology and artificial intelligence in recent years have also brought about changes in the practices of legal translation With changes also come problems in both theory and practice that merit our immediate attention This edited volume highlights the newest developments in the theory practice and training of legal translation with contributions from international leading researchers in this area It will be a standard



reference for anyone who is to embark on research and practice of legal translation in the twenty first century It is also adaptable as teaching materials for translation and interpreting training Chapter Translating Legal Terms at International Organisations Do Institutional Term Banks Meet Translators Needs is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](http://springer.com)     Knowledge-Based Intelligent Information and Engineering Systems Ignac Lovrek, Robert J. Howlett, L. C. Jain, 2008-08-18 Annotation The three volume set LNAI 5177 LNAI 5178 and LNAI 5179 constitutes the refereed proceedings of the 12th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2008 held in Zagreb Croatia in September 2008 The 316 revised papers presented were carefully reviewed and selected The papers present a wealth of original research results from the field of intelligent information processing in the broadest sense topics covered in the first volume are artificial neural networks and connectionists systems fuzzy and neuro fuzzy systems evolutionary computation machine learning and classical AI agent systems knowledge based and expert systems intelligent vision and image processing knowledge management ontologies and data mining Web intelligence text and multimedia mining and retrieval and intelligent robotics and control

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