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# Deontic Logic and Normative Systems

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# Deontic Logic In Computer Science Normative System Specification

**Lou Goble**



## **Deontic Logic In Computer Science Normative System Specification:**

**Deontic Logic in Computer Science** John-Jules Ch. Meyer, John-Jules Ch Meyer, R. J. Wieringa, 1993 A useful logic in which to specify normative system behaviour deontic logic has a broad spectrum of possible applications within the field from legal expert systems to natural language processing database integrity to electronic contracting and the specification of fault tolerant software

**Deontic Logic in Computer Science** Guido Governatori, Giovanni Sartor, 2010 Annotation This volume presents the refereed proceedings of the 10th International Conference on Deontic Logic in Computer Science DEON 2010 held in Fiesole Italy in July 2010 The 18 revised papers included in the volume were carefully reviewed and selected from 34 submissions Topics covered include connections preferences deontic logic and contrary to duties the use of input output logic the study of norm dynamics models of agents and institutions argumentation compliance and various alternative analyses of deontic notions

Deontic Logic and Artificial Normative Systems Lou Goble, 2006-06-29 This book constitutes the refereed proceedings of the 8th International Workshop on Deontic Logic in Computer Science DEON 2006 held in Utrecht Netherlands in July 2006 Presents 18 revised full papers together with the abstracts of 3 invited talks The papers are devoted to the relationship between normative concepts and computer science artificial intelligence philosophy organization theory and law Special emphasis is placed on artificial normative systems

**Deontic Logic, Agency and Normative Systems** Mark A. Brown, Jose Carmo, 2012-12-06 This volume presents a variety of papers bearing on the relation between deontic logics logics of action and normative systems i e systems of or about interacting agents computers human beings corporations etc whose behaviour is subject to ideal constraints that may not always be fulfilled in practice The papers range from theoretical studies of the logical and conceptual tools needed to studies of various applications The set of papers collected in this book should be of interest to investigators working in a variety of fields from philosophy logic and legal theory to artificial intelligence computer and management sciences since it covers topics ranging from theoretical research on foundational issues in deontic and action logics defeasible reasoning decision theory ethical theory and legal theory to research on a variety of issues relevant to applications connected with expert systems in the law document specification automation of defeasible reasoning specification of responsibilities and powers in organizations normative systems specification confidentiality in database systems and a host of other applications

*Deontic Logic in Computer Science* Ron van der Meyden, 2008-07-10 This volume presents the refereed proceedings of the 9th International Conference on Deontic Logic in Computer Science DEON 2008 held in Luxembourg in July 2008 The 16 revised full papers presented together with 4 invited talks were carefully reviewed and selected for inclusion in the book The topics addressed are development of formal systems of deontic logic and related areas of logic and applications Of particular interest is the interaction between computer systems and their users the papers focus also on the special topic of logical approaches to deontic notions in computer science in the area of security and trust encompassing applications in e commerce as well as traditional areas of computer

security     Deontic Logic and Normative Systems Fabrizio Cariani, Davide Grossi, Joke Meheus, Xavier Parent, 2014-06-30 This volume presents the refereed proceedings of the 12th International Conference on Deontic Logic and Normative Systems DEON 2014 held in Ghent Belgium in July 2014 The 17 revised papers and the 2 invited papers included in this volume were carefully reviewed and selected from 31 submissions Topics covered include challenges from natural language for deontic logic the relationship between deontic and other types of modality epistemic modality imperatives supererogatory etc the deontic paradoxes the modeling of normative concepts other than obligation and permission e g values the game theoretical aspects of deontic reasoning the emergence of norms norms from a conversational and pragmatic point of view and norms and argumentation     ,     **Knowledge-Based Software Engineering** M. Virvou, T. Nakamura, 2008-08-15 Addresses various topics in the context of knowledge based software engineering including challenges that have arisen in this area of research This book includes topics such as knowledge based requirements engineering domain analysis and modeling development processes for knowledge based applications and knowledge acquisition     *Recent Trends in Data Type Specification* Magne Haverlaen, Olaf Owe, Ole-Johan Dahl, 1996-09-04 This book contains a strictly refereed selection of revised full papers chosen from the papers accepted for presentation during the 11th Workshop on Abstract Data Types held jointly with the 8th COMPASS Workshop in Oslo Norway in September 1995 The 25 research papers included were chosen from 57 pre selected workshop presentations also included are six invited contributions The volume reports the progress achieved in the area of algebraic specification since the predecessor meeting held in May 1994     Handbook of Philosophical Logic Dov M. Gabbay, Franz Guentner, 2012-12-06 The eighth volume of the Second Edition contains major contributions on the Logic of Questions Sequent Systems for Modal Logics Deontic Logic as well as Deontic Logic and Contrary to duties Audience Students and researchers whose work or interests involve philosophical logic and its applications     **Formal Aspects of Context** Pierre Bonzon, Marcos Cavalcanti, Rolf Nossum, 2013-04-17 We welcome Volume 20 Formal Aspects of Context Context has always been recognised as strongly relevant to models in language philosophy logic and artificial intelligence In recent years theoretical advances in these areas and especially in logic have accelerated the study of context in the international community An annual conference is held and many researchers have come to realise that many of the old puzzles should be reconsidered with proper attention to context The volume editors and contributors are from among the most active front line researchers in the area and the contents shows how wide and vigorous this area is There are strong scientific connections with earlier volumes in the series I am confident that the appearance of this book in our series will help secure the study of context as an important area of applied logic D M Gabbay INTRODUCTION This book is a result of the First International and Interdisciplinary Conference on Modelling and Using Context which was organised in Rio de Janeiro in January 1997 and contains a selection of the papers presented there refereed and revised through a process of anonymous peer review The treatment of contexts as bona fide objects of logical

formalisation has gained wide acceptance in recent years following the seminal impetus by McCarthy in his Turing award address *Software-Intensive Systems and New Computing Paradigms* Martin Wirsing, Jean-Pierre Banatre, Matthias Hölzl, Axel Rauschmayer, 2008-11-14 This volume presents results of three workshops of the InterLink working group setup by the EU to look at software intensive systems and novel computing paradigms It covers ensemble engineering theory and formal methods and novel computing paradigms

**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

OOER '95 Object-Oriented and Entity-Relationship Modeling M. Papazoglou, 1995-11-23 This volume constitutes the refereed proceedings of the 14th International Conference on Object Oriented and Entity Relationship Modelling OOER 95 held in Gold Coast Australia in December 1995 The 36 papers presented together with an invited presentation by Gio Wiederhold were selected from a total of 120 submissions The papers are organized in sections on object design and modelling models and languages reverse engineering and schema transformation behavioral modelling non traditional modelling theoretical foundations business re engineering integrated approaches cooperative work modelling temporal data modelling federated systems design and industrial stream papers

Towards Mathematical Philosophy David Makinson, Jacek Malinowski, Heinrich Wansing, 2008-11-09 area and in applications to linguistics formal epistemology and the study of norms The second contains papers on non classical and many valued logics with an eye on applications in computer science and through it to engineering The third concerns the logic of belief management which is likewise closely connected with recent work in computer science but also links directly with epistemology the philosophy of science the study of legal and other normative systems and cognitive science The grouping is of course rough for there are contributions to the volume that lie astride a boundary at least one of them is relevant from a very abstract perspective to all three areas We say a few words about each of the individual chapters to relate them to each other and the general outlook of the volume Modal Logics The first bundle of papers in this volume contains contribution to modal logic Three of them examine general problems that arise for all kinds of modal logics The first paper is essentially semantical in its approach the second proof theoretic the third semantical again Commutativity of quantifiers in varying domain Kripke models by R Goldblatt and I Hodkinson investigates the possibility of commutation i.e reversing the order for quantifiers in first order modal logics interpreted over relational models

with varying domains The authors study a possible worlds style structural model theory that does not validate commutation but satisfies all the axioms originally presented by Kripke for his familiar semantics for first order modal logic [AI Approaches to the Complexity of Legal Systems](#) Pompeu Casanovas,Ugo Pagallo,Giovanni Sartor,Gianmaria Ajani,2010-10-21

The inspiring idea of this workshop series Artificial Intelligence Approaches to the Complexity of Legal Systems AICOL is to develop models of legal knowledge concerning organization structure and content in order to promote mutual understanding and communication between different systems and cultures Complexity and complex systems describe recent developments in AI and law legal theory argumentation the Semantic Web and multi agent systems The aim of the AICOL workshops is thus to offer effective support for the exchange of knowledge and methodological approaches between scholars from different scientific fields by highlighting their similarities and differences The comparison of multiple formal approaches to the law such as logical models cognitive theories argumentation frameworks graph theory game theory as well as opposite perspectives like internal and the external viewpoints this volume stresses possible convergences as for instance are possible in the realms of conceptual structures argumentation schemes emergent behaviors learning evolution adaptation and simulation This volume assembles 15 thoroughly refereed and revised papers selected from two workshops organized at the XXIV World Congress of Philosophy of Law and Social Philosophy IVR Beijing China September 15 20 2009 and at JURIX 09 December 16 19 2009 Rotterdam The papers are organized in topical sections on language and complex systems in law ontologies and the representation of legal knowledge argumentation and logics as well as dialogue and legal multimedia

*Coordination, Organizations, Institutions, Norms, and Ethics for Governance of Multi-Agent Systems XIV* Andreas Theodorou,Juan Carlos Nieves,Marina De Vos,2022-10-14 This book constitutes revised selected papers from the thoroughly refereed proceedings of the International Workshop on Coordination Organizations Institutions Norms and Ethics for Governance of Multi Agent Systems XIV COINE 2021 held in London UK May 3 2021 The 9 full papers included in this book were carefully reviewed and selected from 12 submissions They were organized in topical sections as follows Invited talk conceptual frameworks architectures for collaboration and coordination and modelling and understanding social behaviour using COINE technologies

**Logics for Databases and Information Systems** Jan Chomicki,Gunter Saake,2012-12-06 Time is ubiquitous in information systems Almost every enterprise faces the problem of its data becoming out of date However such data is often valuable so it should be archived and some means to access it should be provided Also some data may be inherently historical e g medical cadastral or judicial records Temporal databases provide a uniform and systematic way of dealing with historical data Many languages have been proposed for temporal databases among others temporal logic Temporal logic combines abstract formal semantics with the amenability to efficient implementation This chapter shows how temporal logic can be used in temporal database applications Rather than presenting new results we report on recent developments and survey the field in a systematic way using a unified formal framework GHR94 Ch094 The handbook

GHR94 is a comprehensive reference on mathematical foundations of temporal logic In this chapter we study how temporal logic is used as a query and integrity constraint language Consequently model theoretic notions particularly for model satisfaction are of primary interest Axiomatic systems and proof methods for temporal logic GHR94 have found so far relatively few applications in the context of information systems Moreover one needs to bear in mind that for the standard linearly ordered time domains temporal logic is not recursively axiomatizable GHR94 so recursive axiomatizations are by necessity incomplete

Pluralism and Law International Association for Philosophy of Law and Social Philosophy. World Congress, 2001-06-30 What can we say about justice in a pluralist world Is there some universal justice Are there universal human rights What is the function of the state in the modern world Such are the problems dealt with by the 20th world congress of the International Association for Philosophy of Law and Social Philosophy Amsterdam June 2001 and published in this book which is for legal and social philosophers students of human rights and political philosophers

Legal Knowledge and Information Systems Bart Verheij, 2001 This volume contains the proceedings of the fourteenth JURIX conference held December 13-14 2001 at the University of Amsterdam The Foundation for Legal Knowledge Based Systems JURIX is a forum for research in law and computer science Since 1988 JURIX has organized annual international conferences on research in the field Topics addressed range from the theoretical such as the modelling of the law and legal reasoning to the practical such as the design of systems that support legal decision making and teaching

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