



# Deontic Logic In Computer Science

**John-Jules Ch Meyer**



## **Deontic Logic In Computer Science:**

*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 Alessio Lomuscio, Donald Nute, 2004-08-17 This volume contains the workshop proceedings of DEON 2004 the Seventh International Workshop on Deontic Logic in Computer Science The DEON workshop series aims at bringing together researchers interested in topics related to the use of deontic logic in computer science It traditionally promotes research in the relationship between normative concepts and computer science artificial intelligence organisation theory and law In addition to these topics DEON 2004 placed special emphasis on the relationship between deontic logic and multi agent systems The workshop was held in Madeira Portugal on 26-28 May 2004 This volume includes all 15 papers presented at the workshop as well as two abstracts from the two outstanding invited speakers we were privileged to host Prof Mark Brown Syracuse University USA and Prof Mike Wooldridge University of Liverpool UK The reader will find that the topics covered span from theoretical investigations on deontic concepts and their formalisation in logic to the use of deontic formalisms to verify and reason about multi agent systems applications We believe this makes it a well balanced and interesting volume We wish to thank all those who contributed to this workshop and especially the authors of the submitted papers and the referees They were all forced to work on a very tight timescale to make this volume a reality

**Deontic Logic in Computer Science** John-Jules C. Meyer, Roel J. Wieringa, 1993-01-01

**Deontic Logic in Computer Science** Ron van der Meyden, Leendert van der Torre, 2008-07-14 This volume presents the papers contributed to DEON 2008 the 9th International Conference on Deontic Logic in Computer Science held in Luxembourg July 16-18 2008 This biennial conference series is designed to promote international cooperation amongst scholars who are interested in deontic logic and its use in computer science The scope of the conference is interdisciplinary and includes research that links the formal logical study of normative concepts and normative systems with computer science artificial intelligence philosophy organization theory and law The DEON website <http://www.deonticlogic.org> contains links to previous conferences and their papers This history reveals a vibrant interdisciplinary research program Papers for these conferences might address such general themes as the development of formal systems of deontic logic and related areas of logic such as logics of action and agency or the formal analysis of all sorts of normative concepts such as the notions of rule role regulation authority power rights responsibility etc or the formal representation of legal knowledge They might also be concerned with applications such as the formal specification of normative multiagent systems the specification of systems for the management of bureaucratic processes in public or private administration or the specification of database integrity constraints or computer security protocols and more Of particular interest is the interaction between computer systems and their users

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 in Computer Science** Thomas Agotnes, Jan M. Broersen, Dag

Elgesem, 2012-07-11 This volume presents the refereed proceedings of the 11th International Conference on Deontic Logic in Computer Science DEON 2012 held in Bergen Norway in July 2012 The 14 revised papers included in the volume were carefully reviewed and selected from 29 submissions Topics covered include logical study of normative reasoning formal analysis of normative concepts and normative systems formal specification of aspects of norm governed multi agent systems and autonomous agents normative aspects of protocols for communication negotiation and multi agent decision making formal representation of legal knowledge formal specification of normative systems for the management of bureaucratic processes in public or private administration and applications of normative logic to the specification of database integrity constraints      *Deontic Logic in Computer Science* Guido Governatori, Giovanni Sartor, 2010-07-05 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      Norms, Logics and Information Systems Paul McNamara, Henry Prakken, 1999 This book presents research in an

interdisciplinary field resulting from the vigorous and fruitful cross pollination between traditional deontic logic and computer science AI researchers have used deontic logic as one of the tools in modelling legal reasoning Computer scientists have discovered that computer systems including their interaction with other computer systems and with human agents can often be productively modelled as norm governed So for example deontic logic has been applied by computer scientists for specifying bureaucratic systems access and security policies and soft design or integrity constraints and for modelling fault tolerance In turn computer scientists and AI researchers have also discovered and made it clear to the rest of us that various formal tools e g nonmonotonic temporal and dynamic logics developed in computer science and artificial intelligence have interesting applications to traditional issues in deontic logic This volume presents some of the best work done in this area with the selection at once reflecting the general interdisciplinary and international character that this area of research has taken on as well as reflecting the more specific recent inter disciplinary developments between traditional deontic logic and computer science      **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, 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, Agency and Normative Systems** Mark A. Brown, Jose Carmo, 2011-12-21 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      **Introduction to Deontic Logic and Normative Systems** Xavier

Parent, Leendert Torre, 2018-12-10 Deontic logic deals with obligation permission and related normative concepts This textbook introduces three frameworks that have dominated the landscape of deontic logic monadic deontic logic dyadic deontic logic and input output logic It describes their language semantics proof theory and gives soundness and completeness theorems The addition of exercises makes the book ideal for self study or as a textbook in class Deontic logic remains neutral on application issues Over the years it has been applied in a variety of fields including philosophy ethics linguistics computer science and the law This textbook will serve as a valuable resource for students and researchers wishing

to gain a practical understanding of deontic logic for use in their work      International Workshop on Deontic Logic in Computer Science ,1993      **Workshop Proceedings** ,1994      **5th International Workshop on Deontic Logic in Computer Science** Robert Demolombe,Risto Hilpinen,2000      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      **Special Issue on Deontic Logic of Computer Science** John-Jules Ch Meyer,2001      *Deontic Logic in Computer Science* John-Jules Meyer,Roel J. Wieringa,1993      **Deontic logic in computer science** ,1993      Special Issue in Deontic Logic in Computer Science Robert Demolombe,International Workshop on Deontic Logic in Computer Science,Risto Hilpinen,2001

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## **Table of Contents Deontic Logic In Computer Science**

1. Understanding the eBook Deontic Logic In Computer Science
  - The Rise of Digital Reading Deontic Logic In Computer Science
  - Advantages of eBooks Over Traditional Books
2. Identifying Deontic Logic In Computer Science
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Deontic Logic In Computer Science
  - User-Friendly Interface
4. Exploring eBook Recommendations from Deontic Logic In Computer Science
  - Personalized Recommendations
  - Deontic Logic In Computer Science User Reviews and Ratings
  - Deontic Logic In Computer Science and Bestseller Lists
5. Accessing Deontic Logic In Computer Science Free and Paid eBooks
  - Deontic Logic In Computer Science Public Domain eBooks
  - Deontic Logic In Computer Science eBook Subscription Services
  - Deontic Logic In Computer Science Budget-Friendly Options

6. Navigating Deontic Logic In Computer Science eBook Formats
  - ePub, PDF, MOBI, and More
  - Deontic Logic In Computer Science Compatibility with Devices
  - Deontic Logic In Computer Science Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Deontic Logic In Computer Science
  - Highlighting and Note-Taking Deontic Logic In Computer Science
  - Interactive Elements Deontic Logic In Computer Science
8. Staying Engaged with Deontic Logic In Computer Science
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Deontic Logic In Computer Science
9. Balancing eBooks and Physical Books Deontic Logic In Computer Science
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Deontic Logic In Computer Science
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Deontic Logic In Computer Science
  - Setting Reading Goals Deontic Logic In Computer Science
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Deontic Logic In Computer Science
  - Fact-Checking eBook Content of Deontic Logic In Computer Science
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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