

Applications of Deontic Logic in Computer Science: A Concise Overview

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Abstract

Deontic logic is the logic that deals with actual as well as ideal behavior of systems. In this paper, we survey a number of applications of deontic logic in computer science that have arisen in the eighties, and give a systematic framework in which these applications can be classified. Many applications move in the direction of programming a computer in deontic logic to make the computer prohibit, permit or obligate people to do something. We discuss conditions under which this possibility is realistic and conditions under which it would be admissible to do so.

1 Introduction

Deontic logic is the logic to reason about ideal and actual behavior. From the 50's, Von Wright [62, 64], Castañeda [12], Alchourrón [1] and others developed deontic logic as a modal logic with operators for permission, obligation, and prohibition. Other operators are possible, such as formalizations of the system of concepts introduced by Hohfeld in 1913, containing operators for duty, right, power, liability etc. [20].

Deontic logic has traditionally been used to analyze the structure of normative law and normative reasoning in law. It is therefore only natural that interest in the application of deontic logic in computer science started in the area of legal applications. The *International Conference on Logic, Informatics, Law* [14, 34, 36, 35] has been held every four years since 1982, and its proceedings contain a large number of papers on the application of deontic logic to the automatization of legal automation. More recently, the *International Conference on Artificial Intelligence and Law* [21, 22, 23],

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Deontic Logic In Computer Science

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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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