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Abstract

The discursiveness in the process of (logical) argumentation must take into consideration a series of aspects connected to the concepts used, the definitions resulted with the help of these concepts, the theories analyzed. From this perspective, the modal logic and its specific forms involve a reevaluation of reasoning. Moreover, through pertinent discursive argumentations are visible problematical approaches which have certain philosophical significances. Therefore, the new logics reflect at the level of discursiveness a certain meaning which participates in its turn in assuming a certain logical paradigm.

Keywords: the modal logic, the temporal logic, the epistemic logic, the logic of action, the logic of acceptance, the dynamic logic, the teleological logic.

1.1 General characterization of the modal logic

The modal logic (founded in fact by Aristotle¹) represents that part of logic where the modal propositions are studied. The modal propositions are formulated like this: "It is necessary to learn the modal logic", "It is possible for us to go on a trip tomorrow", "It is forbidden to walk on this road" etc. In these sentences one can notice expressions such as: "it is necessary to", "it is possible to", "it is forbidden to" which are the subject matter of modal logic. Still along these there are other expressions or notions specific to this type of logic: "contingent", "existent", "falsified", "logical-false", "factual-true", "obligatory", "permitted", "good", "worse", "always", "later" etc. All these expressions (notions) belong to the modal logic especially, and if they are analyzed privately, they belong to subfields ("private logics") of the modal logic. In other words, in modal logic are used modalities that relate to propositions, events or certain states of facts. "The modal logics are generally built as superior levels of the logic of propositions and the logic of predicates. The logic of prepositions, its axiomatic and semantic is

Aristotle analyzed four modalities: possible, contingent, impossible and necessary.

Essay In Modal Logic

Ghita Holmström-Hintikka, Sten Lindström, R. Sliwinski

Essay In Modal Logic:

An Essay in Modal Logic Georg Henrik Wright, 1951 An Essay in Modal Logic Georg Henrik von Wright, 1951 The Unprovability of Consistency George Boolos, 2009-01-08 The Unprovability of Consistency is concerned with connections between two branches of logic proof theory and modal logic Modal logic is the study of the principles that govern the concepts of necessity and possibility proof theory is in part the study of those that govern provability and consistency In this book George Boolos looks at the principles of provability from the standpoint of modal logic In doing so he provides two perspectives on a debate in modal logic that has persisted for at least thirty years between the followers of C I Lewis and W V O Quine The author employs semantic methods developed by Saul Kripke in his analysis of modal logical systems The book will be of interest to advanced undergraduate and graduate students in logic mathematics and philosophy as well as to An Essay in Classical Modal Logic Krister Segerberg,1971 specialists in those fields The Unprovability of Consistency George Boolos, 1979 **Communication and Meaning** A.J. Jones, 2012-12-06 This essay contains material which will hopefully be of interest not only to philosophers but also to those social scientists whose research concerns the analysis of communication verbal or non verbal Although most of the topics taken up here are central to issues in the philosophy of language they are in my opinion indistinguishable from topics in descriptive social psychology. The essay aims to provide a conceptual framework within which various key aspects of communication can be described and it presents a formal language using techniques from modern modal logic in which such descriptions can themselves be formulated It is my hope that this framework or parts of it might also turn out to be of value in future empirical work. There are therefore essentially two sides to this essay the development of a framework of concepts and the construction of a formal language rich enough to express the elements of which that framework is composed The first of these two takes its point of departure in the statement guoted from Lewis 1972 on the page preceding this introduction The distinction drawn there by Lewis is accepted as a working hypothesis and in one sense this essay may be seen as an attempt to explore some of the consequences of that An Essay in Modal Logic ,1951 Modal Logic Brian F. Chellas, 1980-02-29 A textbook on modal logic hypothesis intended for readers already acquainted with the elements of formal logic containing nearly 500 exercises Brian F Chellas provides a systematic introduction to the principal ideas and results in contemporary treatments of modality including theorems on completeness and decidability Illustrative chapters focus on deontic logic and conditionality Modality is a rapidly expanding branch of logic and familiarity with the subject is now regarded as a necessary part of every philosopher s technical equipment Chellas here offers an up to date and reliable guide essential for the student Many-valued Semantics and Modal Logics: Essays in Honour of Yuriy Vasilievich Ivley Marcelo Esteban Coniglio, Ekaterina Kubyshkina, Dmitry Zaitsev, 2024-06-05 This volume is a collection of essays related to the work of Professor Yuriy Vasilievich Ivlev a distinguished Russian logician and philosopher renowned for his expertise in many valued and modal logics Notably his

groundbreaking work on guasi matrices for logics now recognized as non deterministic matrices and non deterministic semantics emerged in the 1970s From a philosophical standpoint Ivley's research delves into the formal analysis of indeterminacy offering a logical framework to understand how sequences of indeterminate events can yield determinate outcomes The volume follows two complementary lines of research Firstly it serves as a platform for the exploration and discussion of Ivley's seminal contributions to the algebraic characterization of both normal and non normal modal logics aimed at making these insights accessible to an international audience Secondly it features contributions from esteemed logicians and philosophers worldwide offering diverseperspectives on the logical analysis of indeterminacy This comprehensive volume will appeal to scholars and researchers in logic philosophy and mathematics who are engaged in the study of many valued and modal methodologies for modeling situations of indeterminacy Modal Logic Patrick Blackburn, Maarten de Rijke, Yde Venema, 2002-08-22 This is an advanced 2001 textbook on modal logic a field which caught the attention of computer scientists in the late 1970s Researchers in areas ranging from economics to computational linguistics have since realised its worth The book is for novices and for more experienced readers with two distinct tracks clearly signposted at the start of each chapter The development is mathematical prior acquaintance with first order logic and its semantics is assumed and familiarity with the basic mathematical notions of set theory is required. The authors focus on the use of modal languages as tools to analyze the properties of relational structures including their algorithmic and algebraic aspects and applications to issues in logic and computer science such as completeness computability and complexity are considered Three appendices supply basic background information and numerous exercises are provided Ideal for anyone wanting to learn modern modal logic Collected Papers of Stig Kanger with Essays on his Life and Work Ghita Holmström-Hintikka, Sten Lindström, R. Sliwinski, 2012-12-06 Stig Kanger 1924 1988 made important contributions to logic and formal philosophy Kanger's dissertation Provability in Logic 1957 contained significant results in proof theory as well as the first fully worked out model theoretic interpretation of quantified modal logic It is generally accepted nowadays that Kanger was one of the originators of possible worlds semantics for modal logic Kanger's most original achievements were in the areas of general proof theory the semantics of modal and deontic logic and the logical analysis of the concept of rights He also contributed to action theory preference logic and the theory of measurement This is the first of two volumes dedicated to the work of Stig Kanger The present volume is a complete collection of Kanger's philosophical papers The second volume contains critical essays on Kanger's work as well as biographical essays on Kanger written by colleagues and Provability, Computability and Reflection Lev D. Beklemishev, 2000-04-01 Provability Computability and friends Reflection Handbook of Modal Logic Patrick Blackburn, Johan F.A.K. van Benthem, Frank Wolter, 2006-11-03 The Handbook of Modal Logic contains 20 articles which collectively introduce contemporary modal logic survey current research and indicate the way in which the field is developing The articles survey the field from a wide variety of perspectives the

underling theory is explored in depth modern computational approaches are treated and six major applications areas of modal logic in Mathematics Computer Science Artificial Intelligence Linguistics Game Theory and Philosophy are surveyed The book contains both well written expository articles suitable for beginners approaching the subject for the first time and advanced articles which will help those already familiar with the field to deepen their expertise Please visit http people uleth ca woods RedSeriesPromo WP PubSLPR html Compact modal logic reference Computational approaches fully discussed Contemporary applications of modal logic covered in depth An Essay in Modal Logic Krister Segerberg, on Modal Logic Yale Weiss, Romina Birman, 2024-10-02 This edited volume brings together papers by both eminent and rising scholars to celebrate Saul Kripke's singular contributions to modal logic Kripke's work on modal logic helped usher in a new semantic epoch for the field and made facility with modal logic indispensable not only to technically oriented philosophers but to theoretical computer scientists and others as well This volume features previously unpublished work of Kripke's as well as a brief intellectual biography recounting the story of how Kripke became interested in and made his first contributions to modal logic However the majority of the volume s contributions are forward looking and produce new philosophical and technical insights by engaging with ideas tracing back to Kripke **Essays in the Metaphysics of Modality** Alvin Plantinga, 2003-03-27 Perhaps no one has done more in the last 30 years to advance thinking in the metaphysics of modality than has Alvin Plantinga Collected here are some of his most important essays on this influential subject Dating back from the late 1960 s to the present they chronicle the development of Plantinga s thoughts about some of the most fundamental issues in metaphysics what is the nature of abstract objects like possible worlds properties propositions and such phenomena Are there possible but non actual objects Can objects that do not exist exemplify properties Plantinga gives thorough and penetrating answers to all of these questions and many others This volume contains some of the best work in metaphysics from the past 30 years and will remain a source of critical contention and keen interest among philosophers of metaphysics and philosophical logic for years to come An Essay in Modal Logic Amsterdam Georg Henrik von Wright, 1951 Referential Opacity and Modal Logic Dagfinn Follesdal, 2014-04-08 This landmark dissertation 1961 provides a systematic introduction to systems of modal logic and stands as the first presentation of what have become central ideas in philosophy of language and metaphysics from the new theory of reference and non linguistic necessity and essentialism to Kripke semantics **Modal Logic as Metaphysics** Timothy Williamson, 2013-03-28 Timothy Williamson gives an original and provocative treatment of deep metaphysical questions about existence contingency and change using the latest resources of quantified modal logic Contrary to the widespread assumption that logic and metaphysics are disjoint he argues that modal logic provides a structural core for metaphysics **Essays on Explanation** and Understanding Juha Manninen, R. Tuomela, 2012-12-06

Essay In Modal Logic Book Review: Unveiling the Power of Words

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