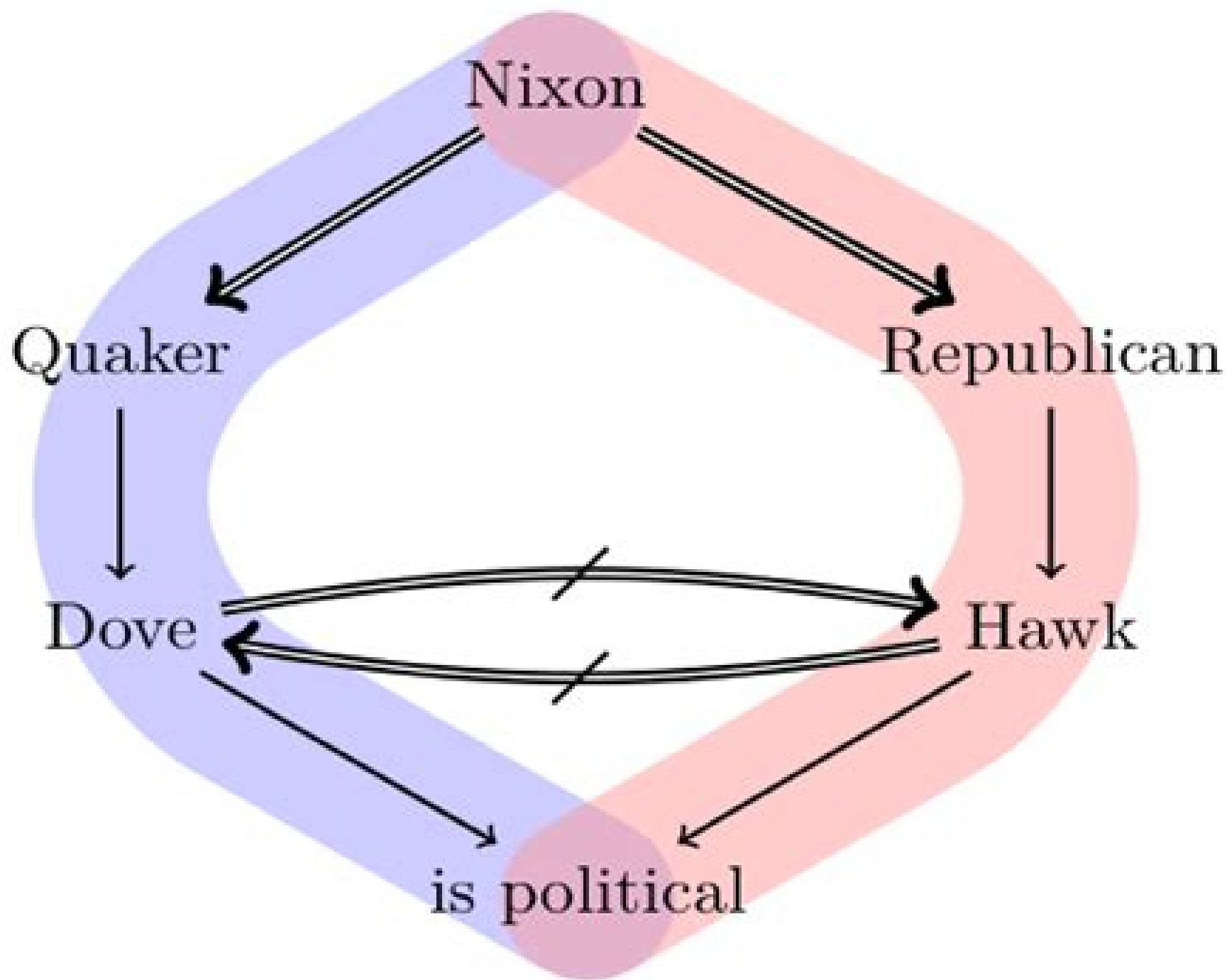




Nonmonotonic Logics

Gerhard Brewka



Nonmonotonic Logics:

Nonmonotonic Logics Karl Schlechta, 1997-01-15 Nonmonotonic logics were created as an abstraction of some types of common sense reasoning analogous to the way classical logic serves to formalize ideal reasoning about mathematical objects. These logics are nonmonotonic in the sense that enlarging the set of axioms does not necessarily imply an enlargement of the set of formulas deducible from these axioms. Such situations arise naturally for example in the use of information of different degrees of reliability. This book emphasizes basic concepts by outlining connections between different formalisms of nonmonotonic logic and gives a coherent presentation of recent research results and reasoning techniques. It provides a self-contained state of the art survey of the area addressing researchers in AI logic. *Nonmonotonic Logic* V. Wiktor Marek, Mirosław Truszczyński, 2013-03-14 When I first participated in exploring theories of nonmonotonic reasoning in the late 1970s I had no idea of the wealth of conceptual and mathematical results that would emerge from those halting first steps. This book by Wiktor Marek and Mirosław Truszczyński is an elegant treatment of a large body of these results. It provides the first comprehensive treatment of two influential nonmonotonic logics: autoepistemic and default logic, and describes a number of surprising and deep unifying relationships between them. It also relates them to various modal logics studied in the philosophical logic literature and provides a thorough treatment of their applications as foundations for logic programming semantics and for truth maintenance systems. It is particularly appropriate that Marek and Truszczyński should have authored this book since so much of the research that went into these results is due to them. Both authors were trained in the Polish school of logic and they bring to their research and writing the logical insights and sophisticated mathematics that one would expect from such a background. I believe that this book is a splendid example of the intellectual maturity of the field of artificial intelligence and that it will provide a model of scholarship for us all for many years to come. Ray Reiter, Department of Computer Science, University of Toronto, Toronto, Canada M5S 1A4 and The Canadian Institute for Advanced Research. Table of Contents 1 1 Introduction **A New Perspective on Nonmonotonic Logics** Dov M. Gabbay, Karl Schlechta, 2016-11-05 In this book the authors present new results on interpolation for nonmonotonic logics, abstract function independence, the Talmudic Kal Vachomer rule, and an equational solution of contrary to duty obligations. The chapter on formal construction is the conceptual core of the book where the authors combine the ideas of several types of nonmonotonic logics and their analysis of natural concepts into a formal logic, a special preferential construction that combines formal clarity with the intuitive advantages of Reiter defaults, defeasible inheritance theory, revision, and epistemic considerations. It is suitable for researchers in the area of computer science and mathematical logic. *Nonmonotonic Logic* Christian Straßer, 2025-08-31 Nonmonotonic logics serve as formal models of defeasible reasoning, a type of reasoning where conclusions are drawn absent absolute certainty. Defeasible reasoning takes place when scientists interpret experiments in medical diagnosis and in practical everyday situations. Given its wide range of applications, nonmonotonic logic is of interest

to philosophy psychology and artificial intelligence This Element provides a systematic introduction to the multifaceted world of nonmonotonic logics Part I familiarizes the reader with basic concepts and three central methodologies formal argumentation consistent accumulation and semantic methods Parts II IV provide a deeper understanding of each of these methods by introducing prominent logics within each paradigm Despite the apparent lack of unification in the domain of nonmonotonic logics this Element reveals connections between the three paradigms by demonstrating translations among them Whether you re a novice or an experienced traveler this Element provides a reliable map for navigating the landscape of nonmonotonic logic

Explanatory Nonmonotonic Reasoning Alexander Bochman,2005-01-19 Many approaches in the field of nonmonotonic and commonsense reasoning are actually different representations of the same basic ideas and constructions This book gives a logical formalization of the original explanatory approach to nonmonotonic reasoning It uses the basic formalism of biconsequence relations as well as derived systems of default autoepistemic and causal inference to cover in a single framework such diverse systems as default logic autoepistemic and modal nonmonotonic logics input output and causal logics argumentation theory and semantics of general logic programs with negation as failure This approach provides a clear separation between logical monotonic and nonmonotonic aspects of nonmonotonic reasoning The separation allows in particular to single out the logics underlying modern logic programming and restore thereby the connection between logic programming and logic

Logic Programming and Nonmonotonic Reasoning Ulrich Furbach,1997-07-02 Development and environment problems have reached such alarming proportions that the very survival of humanity is now subject to critical and unprecedented threats In its latest report the German Advisory Council on Global Change WBGU criticizes Germany s global change research community for its lack of international orientation its bias towards individual disciplines and for its weaknesses in translating scientific results into a form readily accessible to policymakers The Council identifies alternatives for restructuring the research landscape focusing primarily on a new Syndrome Approach for global change research By applying this tool scientists can systematically describe and analyze the diseases afflicting the Earth System and thus elaborate response options

Logic Programming and Nonmonotonic Reasoning Michael Gelfond,Nicole Leone,Gerald Pfeifer,2003-06-26 This book constitutes the refereed proceedings of the 5th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 99 held in El Paso Texas USA in December 1999 The volume presents 26 contributed papers and four invited talks three appearing as extended abstracts and one as a full paper Topics covered include logic programming non monotonic reasoning knowledge representation semantics complexity expressive power and implementation and applicatons

The Many Valued and Nonmonotonic Turn in Logic Dov M. Gabbay,John Woods,2007-08-13 The present volume of the Handbook of the History of Logic brings together two of the most important developments in 20th century non classical logic These are many valuedness and non monotonicity On the one approach in deference to vagueness temporal or quantum indeterminacy or reference failure sentences that are

classically non bivalent are allowed as inputs and outputs to consequence relations Many valued dialethic fuzzy and quantum logics are among other things principled attempts to regulate the flow through of sentences that are neither true nor false On the second or non monotonic approach constraints are placed on inputs and sometimes on outputs of a classical consequence relation with a view to producing a notion of consequence that serves in a more realistic way the requirements of real life inference Many valued logics produce an interesting problem Non bivalent inputs produce classically valid consequence statements for any choice of outputs A major task of many valued logics of all stripes is to fashion an appropriately non classical relation of consequence The chief preoccupation of non monotonic and default logicians is how to constrain inputs and outputs of the consequence relation In what is called left non monotonicity it is forbidden to add new sentences to the inputs of true consequence statements The restriction takes notice of the fact that new information will sometimes override an antecedently and reasonably derived consequence In what is called right non monotonicity limitations are imposed on outputs of the consequence relation Most notably perhaps is the requirement that the rule of or introduction not be given free sway on outputs Also prominent is the effort of paraconsistent logicians both preservationist and dialethic to limit the outputs of inconsistent inputs which in classical contexts are wholly unconstrained In some instances our two themes coincide Dialethic logics are a case in point Dialethic logics allow certain selected sentences to have as a third truth value the classical values of truth and falsity together So such logics also admit classically inconsistent inputs A central task is to construct a right non monotonic consequence relation that allows for these many valued and inconsistent inputs The Many Valued and Non Monotonic Turn in Logic is an indispensable research tool for anyone interested in the development of logic including researchers graduate and senior undergraduate students in logic history of logic mathematics history of mathematics computer science AI linguistics cognitive science argumentation theory and the history of ideas Detailed and comprehensive chapters covering the entire range of modal logic Contains the latest scholarly discoveries and interpretative insights that answers many questions in the field of logic

Nonmonotonic and Inductive Logic Gerhard Brewka,1993 This proceedings volume contains a selection of revised and extended papers presented at the Second International Workshop on Nonmonotonic and Inductive Logic NIL 91 which took place at Reinhardtsbrunn Castle December 26 1991 The volume opens with an extended version of a tutorial on nonmonotonic logic by G Brewka J Dix and K Konolige Fifteen selected papers follow on a variety of topics The majority of papers belong either to the area of nonmonotonic reasoning or to the field of inductive inference but some papers integrate research from both areas The first workshop in this series was held at the University of Karlsruhe in December 1990 and its proceedings were published as Lecture Notes in Artificial Intelligence Volume 543 The series of workshops was made possible by financial support from Volkswagen Stiftung Hannover This workshop was also supported by IBM Deutschland GmbH and Siemens AG

Nonmonotonic Reasoning Grigoris Antoniou,Mary-Anne Williams,1997 Nonmonotonic reasoning provides formal methods that enable intelligent

systems to operate adequately when faced with incomplete or changing information. In particular, it provides rigorous mechanisms for taking back conclusions that in the presence of new information turn out to be wrong and for deriving new alternative conclusions instead. Nonmonotonic reasoning methods provide rigor similar to that of classical reasoning; they form a base for validation and verification and therefore increase confidence in intelligent systems that work with incomplete and changing information. Following a brief introduction to the concepts of predicate logic that are needed in the subsequent chapters, this book presents an in-depth treatment of default logic. Other subjects covered include the major approaches of autoepistemic logic and circumscription, belief revision and its relationship to nonmonotonic inference, and briefly the stable and well-founded semantics of logic programs.

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