

Nonmonotonic logics (NML)

- FOL + resolution is monotonic:
 if $KB \models P$ **then** $(KB \cup \{Q\}) \models P$
for all consistent KB and *all* Q obtained from KB by applying resolution.
- The number of statements known to be true is strictly increasing over time
- Non-monotonic: “jump” to conclusions that can later be withdrawn (defeasible conclusions)

Nonmonotonic Logics

**Michael Gelfond, Nicole Leone, Gerald
Pfeifer**



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

Slechta, 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

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 dialetheic 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 dialetheic to limit the outputs of inconsistent inputs which in classical contexts are wholly unconstrained In some instances our two themes coincide Dialetheic logics are a case in point Dialetheic 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 **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 **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* 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 applications *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 Reinhardsbrunn Castle December 2 6 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

Nonmonotonic and Inductive Logic Klaus P. Jantke, Peter H. Schmitt, 1991-09-18 This proceedings volume contains revised and reviewed papers based on talks presented at the first International Workshop on Nonmonotonic and Inductive Logic held in Karlsruhe December 1990 The workshop was supported by the Volkswagen Stiftung Hannover and provided a forum for researchers from the two fields to communicate and find areas of cooperation The papers are organized into sections on Nonmonotonicity in logic programs Axiomatic approach to nonmonotonic reasoning Inductive inference Autoepistemic logic Belief updates The bulk of the papers are devoted to nonmonotonic logic and provide an up to date view of the current state of research presented by leading experts in the field A novelty in the contributions from the area of inductive logic is the analysis of nonmonotonicity in the theory of inductive learning

Logic Programming and Nonmonotonic Reasoning Marcello Balduccini, Tomi Janhunen, 2017-06-27 This book constitutes the refereed proceedings of the 14th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2017 held in Espoo Finland in July 2017 The 16 full papers and 11 short papers presented in this volume were carefully reviewed and selected from 47 submissions The book also contains 4 invited talks The papers were organized in topical sections named nonmonotonic reasoning answer set programming LPNMR systems and LPNMR applications

Non-Monotonic Extensions of Logic Programming Jürgen Dix, Luis Moniz Pereira, Teodor C. Przymusiński, 1997-04-09 This book constitutes the thoroughly refereed post workshop proceedings of the 6th International Workshop on Non Monotonic Extensions of Logic Programming NMELP 96 held in Bad Honnef Germany in September 1996 The nine full papers presented in the volume in revised version were carefully reviewed and selected from a total of 18 submissions the set of papers addresses theoretical applicational and implementational issues and reflects the current state of the art in the area of non monotonic extensions of logic programming An introductory survey by the volume editors entitled Prolegomena to Logic Programming for Non Monotonic Reasoning deserves special mentioning it contains a bibliography listing 136 entries

Logic Programming and Non-Monotonic Reasoning Lua-S Moniz Pereira, Anil Nerode, 1993 This is the second in a series of workshops that are bringing together researchers from the theoretical end of both the logic programming and artificial intelligence communities to discuss their mutual interests This workshop emphasizes the relationship between logic programming and non monotonic

reasoning Luis Moniz Pereira is Professor in the Department of Computer Science at the Universidade Nova Lisboa Portugal Anil Nerode is Professor and Director of the Mathematical Sciences Institute at Cornell University Topics include Stable Semantics Autoepistemic Logic Abduction Implementation Issues Well founded Semantics Truth Maintenance Probabilistic Theories Applications Default Logic Diagnosis Complexity and Theory Handling Inconsistency Logics in Artificial Intelligence Jose Julio Alferes,Luis Moniz Pereira,Ewa Orlowska,1996-08-28 This book presents the refereed proceedings of the Sixth European Workshop on Logics in Artificial Intelligence JELIA 96 held in Evora Portugal in September October 1996 The 25 revised full papers included together with three invited papers were selected from 57 submissions Many relevant aspects of AI logics are addressed The papers are organized in sections on automated reasoning modal logics applications nonmonotonic reasoning default logics logic programming temporal and spatial logics and belief revision and paraconsistency **Logic Programming** Leon Sterling,1995 Topics covered Theoretical Foundations Higher Order Logics Non Monotonic Reasoning Programming Methodology Programming Environments Extensions to Logic Programming Constraint Satisfaction Meta Programming Language Design and Constructs Implementation of Logic Programming Languages Compilation Techniques Architectures Parallelism Reasoning about Programs Deductive Databases Applications 13 16 June 1995 Tokyo Japan ICLP which is sponsored by the Association for Logic Programming is one of two major annual international conferences reporting recent research results in logic programming Logic programming originates from the discovery that a subset of predicate logic could be given a procedural interpretation which was first embodied in the programming language Prolog The unique features of logic programming make it appealing for numerous applications in artificial intelligence computer aided design and verification databases and operations research and for exploring parallel and concurrent computing The last two decades have witnessed substantial developments in this field from its foundation to implementation applications and the exploration of new language designs Topics covered Theoretical Foundations Higher Order Logics Non Monotonic Reasoning Programming Methodology Programming Environments Extensions to Logic Programming Constraint Satisfaction Meta Programming Language Design and Constructs Implementation of Logic Programming Languages Compilation Techniques Architectures Parallelism Reasoning about Programs Deductive Databases Applications Logic Programming series Research Reports and Notes **The Development of Modern Logic** Leila Haaparanta,2009-06-18 This edited volume presents a comprehensive history of modern logic from the Middle Ages through the end of the twentieth century In addition to a history of symbolic logic the contributors also examine developments in the philosophy of logic and philosophical logic in modern times The book begins with chapters on late medieval developments and logic and philosophy of logic from Humanism to Kant The following chapters focus on the emergence of symbolic logic with special emphasis on the relations between logic and mathematics on the one hand and on logic and philosophy on the other This discussion is completed by a chapter on the themes of judgment and inference from 1837 1936 The volume

contains a section on the development of mathematical logic from 1900 1935 followed by a section on main trends in mathematical logic after the 1930s The volume goes on to discuss modal logic from Kant till the late twentieth century and logic and semantics in the twentieth century the philosophy of alternative logics the philosophical aspects of inductive logic the relations between logic and linguistics in the twentieth century the relationship between logic and artificial intelligence and ends with a presentation of the main schools of Indian logic The Development of Modern Logic includes many prominent philosophers from around the world who work in the philosophy and history of mathematics and logic who not only survey developments in a given period or area but also seek to make new contributions to contemporary research in the field It is the first volume to discuss the field with this breadth of coverage and depth and will appeal to scholars and students of logic and its philosophy

Logics in Artificial Intelligence Farinas Luis Del Cerro,Ulrich Furbach,2003-05-20 This volume contains the papers selected for presentation at the conference and two abstracts from invited speakers The programme committee selected these 25 papers from 12 countries out of 65 submissions from 17 countries The rst JELIA meeting was in Rosco France ten years ago Afterwards it took place in the Netherlands Germany United Kingdom Portugal and now again in Germany The proceedings of the last four meetings appeared in the Springer Verlag LNCS series and a selected series of papers of the English and the Portuguese meeting appeared as special issues in the Journal of Applied Non Classical Logics and in the Journal of Automated Reasoning respectively The aim of JELIA was and still is to provide a forum for the exchange of ideas and results in the domain of foundations of AI focusing on rigorous descriptions of some aspects of intelligence These descriptions are promoted by applications and produced by logical tools and methods The papers contained in this volume cover the following topics 1 Logic programming 2 Epistemic logics 3 Theorem proving 4 Non monotonic reasoning 5 Non standard logics 6 Knowledge representation 7 Higher order logics We would like to warmly thank the authors the invited speakers the m bers of the program committee and the additional reviewers listed below They all have made these proceedings possible and ensured their quality

An Introduction to Default Logic Philippe Besnard,2013-04-17 This book is written for those who are interested in a fonnalization of human reasoning especially in order to build intelligent computer systems Thus it is mainly designed for the Artificial Intelligence community both students and researchers although it can be useful for people working in related fields like cognitive psychology The major theme is not Artificial Intelligence applications although these are discussed throughout in sketch fonn Rather the book places a heavy emphasis on the fonnal development of default logic results and problems Default logic provides a fonnalism for an important part of human reasoning Default logic is specifically concerned with common sense reasoning which has recently been recognized in the Artificial Intelligence literature to be of fundamental importance for knowledge representation Previously fonnalized reasoning systems failed in real world environments though succeeding with an acceptable ratio in well defined environments This situation enabled empirical explorations and the design of systems without theoretical justification In particular they could not be compared

since there was no basis to judge their respective merits Default logic turned out to be very fruitful by proving the correctness of some of them We hope that this book will initiate other successful developments in default logic Reasons for Logic, Logic for Reasons Ulf Hlobil, Robert B. Brandom, 2024-07-15 Reasons for Logic Logic for Reasons presents a philosophical conception of logic logical expressivism according to which the role of logic is to make explicit reason relations which are often neither monotonic nor transitive This conception of logic reveals new and enlightening perspectives on inferential roles sequent calculi representation truthmakers and many extant logical theories The book shows how we can understand different metavocabularies as making explicit the same reason relations namely normative pragmatic alethic representational logical and implication space metavocabularies This includes a philosophical account of the pragmatic role of reason relations treatments of nonmonotonic and nontransitive consequence relations in sequent calculi a correspondence between these sequent calculi and variants of truthmaker theory and the introduction of a novel kind of formal semantics that interprets sentences by assigning inferential roles to them The book thus offers logical expressivists and semantic inferentialists new ways to understand logic content inferential roles representation and reason relations This book will appeal to researchers and graduate students who are interested in the philosophy of logic in reasons and reasoning in theories of meaning and content or in nonmonotonic and nontransitive logics

Reviewing **Nonmonotonic Logics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Nonmonotonic Logics**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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