

Probability and Logic

- Probability can be viewed as a generalization of propositional logic
- $P(a)$:
 - a is any sentence in propositional logic
 - Belief of agent in a is no longer restricted to *true*, *false*, *unknown*
 - $P(a)$ can range from 0 to 1
 - $P(a) = 0$, and $P(a) = 1$ are special cases
 - So logic can be viewed as a special case of probability

A Primer Of Probability Logic

IM Harris



A Primer Of Probability Logic:

A Primer of Probability Logic Ernest Wilcox Adams,1998 This book is meant to be a primer that is an introduction to probability logic a subject that appears to be in its infancy Probability logic is a subject envisioned by Hans Reichenbach and largely created by Adams It treats conditionals as bearers of conditional probabilities and discusses an appropriate sense of validity for arguments such conditionals as well as ordinary statements as premises This is a clear well written text on the subject of probability logic suitable for advanced undergraduates or graduates but also of interest to professional philosophers There are well thought out exercises and a number of advanced topics treated in appendices while some are brought up in exercises and some are alluded to only in footnotes By this means it is hoped that the reader will at least be made aware of most of the important ramifications of the subject and its tie ins with current research and will have some indications concerning recent and relevant literature

Handbook of the Logic of Argument and Inference R.H. Johnson,H.J. Ohlbach,Dov M. Gabbay,John Woods,2002-09-11 The Handbook of the Logic of Argument and Inference is an authoritative reference work in a single volume designed for the attention of senior undergraduates graduate students and researchers in all the leading research areas concerned with the logic of practical argument and inference After an introductory chapter the role of standard logics is surveyed in two chapters These chapters can serve as a mini course for interested readers in deductive and inductive logic or as a refresher Then follow two chapters of criticism one the internal critique and the other the empirical critique The first deals with objections to standard logics as theories of argument and inference arising from the research programme in philosophical logic The second canvasses criticisms arising from work in cognitive and experimental psychology The next five chapters deal with developments in dialogic logic interrogative logic informal logic probability logic and artificial intelligence The last chapter surveys formal approaches to practical reasoning and anticipates possible future developments Taken as a whole the Handbook is a single volume indication of the present state of the logic of argument and inference at its conceptual and theoretical best Future editions will periodically incorporate significant new developments

Essays on the Foundations of Mathematics and Logic Giandomenico Sica,2005

Lectures on Inductive Logic Jon Williamson,2017-01-19 Logic is a field studied mainly by researchers and students of philosophy mathematics and computing Inductive logic seeks to determine the extent to which the premisses of an argument entail its conclusion aiming to provide a theory of how one should reason in the face of uncertainty It has applications to decision making and artificial intelligence as well as how scientists should reason when not in possession of the full facts In this book Jon Williamson embarks on a quest to find a general reasonable applicable inductive logic GRAIL all the while examining why pioneers such as Ludwig Wittgenstein and Rudolf Carnap did not entirely succeed in this task Along the way he presents a general framework for the field and reaches a new inductive logic which builds upon recent developments in Bayesian epistemology a theory about how strongly one should believe the various propositions that one can express The

book explores this logic in detail discusses some key criticisms and considers how it might be justified Is this truly the GRAIL Although the book presents new research this material is well suited to being delivered as a series of lectures to students of philosophy mathematics or computing and doubles as an introduction to the field of inductive logic **Logic and**

Uncertainty in the Human Mind Shira Elqayam,Igor Douven,Jonathan St B. T. Evans,Nicole Cruz,2020-06-10 David E Over is a leading cognitive scientist and with his firm grounding in philosophical logic he also exerts a powerful influence on the psychology of reasoning He is responsible for not only a large body of empirical work and accompanying theory but for advancing a major shift in thinking about reasoning commonly known as the new paradigm in the psychology of human reasoning Over s signature mix of philosophical logic and experimental psychology has inspired generations of researchers psychologists and philosophers alike over more than a quarter of a century The chapters in this volume written by a leading group of contributors including a number who helped shape the psychology of reasoning as we know it today each take their starting point from the key themes of Over s ground breaking work The essays in this collection explore a wide range of central topics such as rationality bias dual processes and dual systems as well as contemporary psychological and philosophical theories of conditionals It concludes with an engaging new chapter authored by David E Over himself which details and analyses the new paradigm psychology of reasoning This book is therefore important reading for scholars

researchers and advanced students in psychology philosophy and the cognitive sciences including those who are not familiar with Over s thought already **Pure Inductive Logic** Jeffrey Paris,Alena Vencovská,2015-04-02 Pure inductive logic is the study of rational probability treated as a branch of mathematical logic This monograph the first devoted to this approach brings together the key results from the past seventy years plus the main contributions of the authors and their collaborators over the last decade to present a comprehensive account of the discipline within a single unified context The exposition is structured around the traditional bases of rationality such as avoiding Dutch Books respecting symmetry and ignoring irrelevant information The authors uncover further rationality concepts both in the unary and in the newly emerging polyadic languages such as conformity spectrum exchangeability similarity and language invariance For logicians with a mathematical grounding this book provides a complete self contained course on the subject taking the reader from the basics up to the most recent developments It is also a useful reference for a wider audience from philosophy and computer science

Context , Judgment and Decision Making Under Uncertainty: Descriptive, Normative, and Prescriptive Perspectives David R. Mandel,Gorka Navarrete,Nathan Dieckmann,Jonathan D. Nelson,2019-09-26 **Proceedings from Semantics and Linguistic Theory** ,2000 **Journal of the American Statistical Association** ,2001 *Mathematical Reviews* ,2005 **Internalism and Epistemology** Timothy J. McGrew,Lydia McGrew,2007 Publisher description **Studies in Bayesian Confirmation Theory** Branden Fitelson,2001 *The Bulletin of Mathematics Books* ,1992 *Bayesian Rationality* Mike Oaksford,Nick Chater,2007 For almost 2 500 years the Western concept of what is to be human has been

dominated by the idea that the mind is the seat of reason humans are almost by definition the rational animal In this text a more radical suggestion for explaining these puzzling aspects of human reasoning is put forward **Mind**, 1913 A journal of philosophy covering epistemology metaphysics philosophy of language philosophy of logic and philosophy of mind *The Cumulative Book Index*, 1999 **A National Survey of Conditions in Freshmen English** Warner Taylor, 1929 If Jonathan St. B. T. Evans, D. E. Over, 2004 If is one of the most important words in the English language being used to express hypothetical thought The use of conditionals such as if distinguishes human intelligence from that of other animals In this volume the authors present a theoretical approach to understanding conditionals **The Journal of Philosophy**, 2001

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