Shan-Hwei Nienhuys-Cheng
Roland de Wolf

Foundations
of Inductive
Logic Programming

Springer

Foundations Of Inductive Logic

Rudolf Carnap,Richard C. Jeffrey

Foundations Of Inductive Logic:

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probability as a logical relation between statements based on evidence The Relative Frequency theories locate it not in logic but among empirical rates of occurrence in the real world while the Subjectivist Theory identifies probability with the degree of a person s belief in a proposition Each of these types of theory is examined in turn and the treatment is unified by the use of running examples and parallel analyses of each theory The final chapter includes a summary and the author s conclusions This book is an essential read for scholars and researchers of Philosophy **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 **John von Neumann and the Foundations of Quantum Physics** Miklós Rédei,Michael Stöltzner,2013-03-09 John von Neumann 1903 1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann s theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann s thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the Institute s annual lecture series

and reviews of important publications of philosophy of science and its history **Foundations of Intelligent Systems** Ning Zhong,Zbigniew W Ras,Shusaku Tsumoto,Einoshin Suzuki,2003-10-10 This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for Intelligent Systems ISMIS 2003 held in Maebashi City Japan 28 31 October 2003 The symposium was organized by the Maebashi Institute of Technology in co operation with the Japanese Society for Artificial Intelligence It was sponsored by the Maebashi Institute of Technology Maebashi Convention Bureau Maebashi City Government Gunma Prefecture Government US AFOSR AOARD the Web Intelligence Consortium Japan Gunma Information Service Industry Association and Ryomo Systems Co Ltd ISMIS is a conference series that was started in 1986 in Knoxville Tennessee Since then it has been held in Charlotte North Carolina Knoxville Tennessee Turin Italy Trondheim Norway Warsaw Poland Zakopane Poland and Lyon France The program committee selected the following major areas for ISMIS 2003 active media human computer interaction autonomic and evolutionary computation intelligent agent technology intelligent information retrieval intelligent information systems knowledge representation and integration knowledge discovery and data mining logic for artificial intelligence soft computing and Web intelligence

Foundations of Rule Learning Johannes Fürnkranz,Dragan Gamberger,Nada Lavrač,2012-11-06 Rules the clearest most explored and best understood form of knowledge representation are particularly important for data mining as they offer the best tradeoff between human and machine understandability This book presents the fundamentals of rule learning as investigated in classical machine learning and modern data mining It introduces a feature based view as a unifying framework for propositional and relational rule learning thus bridging the gap between attribute value learning and inductive logic programming and providing complete coverage of most important elements of rule learning The book can be used as a textbook for teaching machine learning as well as a comprehensive reference to research in the field of inductive rule learning As such it targets students researchers and developers of rule learning algorithms presenting the fundamental rule learning concepts in sufficient breadth and depth to enable the reader to understand develop and apply rule learning techniques to real world data **The Probabilistic Foundations of Rational Learning** Simon M. Huttegger,2017-10-19 This book extends Bayesian epistemology to develop new approaches to general rational learning within the framework of probability theory Logical Foundations of Probability Rudolf Carnap,1962 The Foundations of Scientific Inference Wesley Salmon,1967-09 Not since Ernest Nagel s 1939 monograph on the theory of probability has there been a comprehensive elementary survey of the philosophical problems of probablity and induction This is an authoritative and up to date treatment of the subject and yet it is relatively brief and nontechnical Hume s skeptical arguments regarding the justification of induction are taken as a point of departure and a variety of traditional and contemporary ways of dealing with this problem are considered The author then sets forth his own criteria of adequacy for interpretations of probability Utilizing these criteria he analyzes contemporary theories of probability as well as the older classical and subjective

interpretations *Foundations of Economic Method* Lawrence A. Boland,2020-09-23 Many consider Foundations of Economic Method to be Lawrence Boland s best work This updated edition is radically changed from the original and will be much appreciated by thinkers within economics The book positions methodology vis vis the current practice of economists and is all the better for it Yet another book that not only deserves to be read by those within the field of economic methodology but also by those involved in economics at all Boland is back **Algorithmic Learning Theory** Michael M. Richter,Carl H. Smith,Rolf Wiehagen,Thomas Zeugmann,2003-06-29 This volume contains all the papers presented at the Ninth International Con rence on Algorithmic Learning Theory ALT 98 held at the European education centre Europ aisches Bildungszentrum ebz Otzenhausen Germany October 8 10 1998 The Conference was sponsored by the Japanese Society for Arti cial Intelligence JSAI and the University of Kaiserslautern Thirty four papers on all aspects of algorithmic learning theory and related areas were submitted all electronically Twenty six papers were accepted by the program committee based on originality quality and relevance to the theory of machine learning Additionally three invited talks presented by Akira Maruoka of Tohoku University Arun Sharma of the University of New South Wales and Stefan Wrobel from GMD respectively were featured at the conference We would like to express our sincere gratitude to our invited speakers for sharing with us their insights on new and exciting developments in their areas of research This conference is the ninth in a series of annual meetings established in 1990 The ALT series focuses on all areas related to algorithmic learning theory including but not limited to the theory of machine learning the design and analysis of learning algorithms computational logic of for machine discovery inductive inference of recursive functions and recursively enumerable languages learning via queries learning by arti cial and biological neural networks pattern recognition learning by analogy statistical learning Bayesian MDL estimation inductive logic programming robotics application of learning to databases and gene analyses Computational Learning Theory Paul Fischer,Hans U. Simon,2003-07-31 This book constitutes the refereed proceedings of the 4th European Conference on Computational Learning Theory EuroCOLT 99 held in Nordkirchen Germany in March 1999 The 21 revised full papers presented were selected from a total of 35 submissions also included are two invited contributions The book is divided in topical sections on learning from queries and counterexamples reinforcement learning online learning and export advice teaching and learning inductive inference and statistical theory of learning and pattern recognition

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