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LICS 3075

Wolfgang Lenski (Ed.)

Logic versus Approximation

Essays Dedicated to Michael M. Richter
on the Occasion of his 65th Birthday



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Logic Versus Approximation

Weiqiang Liu, Fabrizio Lombardi



Logic Versus Approximation:

Logic versus Approximation Wolfgang Lenski, 2004-10-20 Nowadays knowledge based systems research and development essentially employs two paradigms of reasoning There are on the one hand the logic based approaches where logic is to be understood in a rather broad sense usually these approaches are used in symbolic domains where numerical calculations are not the core challenge On the other hand we find approximation oriented reasoning methods of these kinds are mainly applied in numerical domains where approximation is part of the scientific methodology itself However from an abstract level all these approaches do focus on similar topics and arise on various levels such as problem modeling inference and problem solving techniques algorithms and mathematical methods mathematical relations between discrete and continuous properties and are integrated in tools and applications In accordance with the unifying vision and research interest of Michael M Richter and in correspondence to his scientific work this book presents 13 revised full papers advocating the integration of logic based and approximation oriented approaches in knowledge processing

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Logic Versus Approximation Wolfgang Lenski, 2014-01-15 **Computational Logic: Logic Programming and Beyond** Antonis C. Kakas, Fariba Sadri, 2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d'être The diversity of interests covered here reflects the variety of Bob's concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half

dozen years that Bob was a leading member of Bernard's group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language *Artificial Intelligence Logic and Applications* Yixiang Chen, Songmao Zhang, 2022-12-09 This book constitutes refereed proceedings of the 2nd International Conference on Artificial Intelligence Logic and Applications 2022 held in Shanghai China from August 26-28 2022 The 20 full papers presented in this volume were carefully reviewed and selected from a total of 27 submissions The papers in the volume are organised according to the following topical headings: program logic, fuzzy logic, applications, author index *Computational Science - ICCS 2001* Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, Rene S. Renner, C.J. Kenneth Tan, 2003-05-15 LNCS volumes 2073 and 2074 contain the proceedings of the International Conference on Computational Science ICCS 2001 held in San Francisco California May 27-31 2001 The two volumes consist of more than 230 contributed and invited papers that reflect the aims of the conference to bring together researchers and scientists from mathematics and computer science as basic computing disciplines, researchers from various application areas who are pioneering advanced application of computational methods to sciences such as physics, chemistry, life sciences and engineering, arts and humanitarian fields along with software developers and vendors to discuss problems and solutions in the area to identify new issues and to shape future directions for research as well as to help industrial users apply various advanced computational techniques

Algebraic Methodology and Software Technology Michael Johnson, Varmo Vene, 2006-06-27 This is the refereed proceedings of the 11th International Conference on Algebraic Methodology and Software Technology The book collects 24 revised full papers together with 3 system demonstrations and 3 invited talks Coverage includes current issues in formal methods related to algebraic approaches and to software engineering including abstract data types, process algebras, algebraic specification, model checking, abstraction, refinement, μ -calculus, state machines, rewriting, Kleene algebra, programming logic and formal software development **Fuzzy Sets in Approximate Reasoning and Information**

Systems J.C. Bezdek, Didier Dubois, Henri Prade, 2012-12-06 Approximate reasoning is a key motivation in fuzzy sets and possibility theory This volume provides a coherent view of this field and its impact on database research and information retrieval First the semantic foundations of approximate reasoning are presented Special emphasis is given to the representation of fuzzy rules and specialized types of approximate reasoning Then syntactic aspects of approximate reasoning are surveyed and the algebraic underpinnings of fuzzy consequence relations are presented and explained The second part of the book is devoted to inductive and neuro-fuzzy methods for learning fuzzy rules It also contains new material on the application of possibility theory to data fusion The last part of the book surveys the growing literature on fuzzy information systems Each chapter contains extensive bibliographical material *Fuzzy Sets in Approximate Reasoning and Information Systems* is a major source of information for research scholars and graduate students in computer science and artificial intelligence interested in human information processing *Approximate Circuits* Sherief Reda, Muhammad

Shafique,2018-12-05 This book provides readers with a comprehensive state of the art overview of approximate computing enabling the design trade off of accuracy for achieving better power performance efficiencies through the simplification of underlying computing resources The authors describe in detail various efforts to generate approximate hardware systems while still providing an overview of support techniques at other computing layers The book is organized by techniques for various hardware components from basic building blocks to general circuits and systems *Fuzzy Sets, Logics and Reasoning about Knowledge* Didier Dubois,Henri Prade,Erich Peter Klement,2013-03-09 Fuzzy Sets Logics and Reasoning about Knowledge reports recent results concerning the genuinely logical aspects of fuzzy sets in relation to algebraic considerations knowledge representation and commonsense reasoning It takes a state of the art look at multiple valued and fuzzy set based logics in an artificial intelligence perspective The papers all of which are written by leading contributors in their respective fields are grouped into four sections The first section presents a panorama of many valued logics in connection with fuzzy sets The second explores algebraic foundations with an emphasis on MV algebras The third is devoted to approximate reasoning methods and similarity based reasoning The fourth explores connections between fuzzy knowledge representation especially possibilistic logic and prioritized knowledge bases Readership Scholars and graduate students in logic algebra knowledge representation and formal aspects of artificial intelligence **Approximate Computing** Weiqiang Liu,Fabrizio Lombardi,2022-08-22 This book explores the technological developments at various levels of abstraction of the new paradigm of approximate computing The authors describe in a single source the state of the art covering the entire spectrum of research activities in approximate computing bridging device circuit architecture and system levels Content includes tutorials reviews and surveys of current theoretical experimental results design methodologies and applications developed in approximate computing for a wide scope of readership and specialists Serves as a single source reference to state of the art of approximate computing Covers broad range of topics from circuits to applications Includes contributions by leading researchers from academia and industry *Fuzzy Logic and Soft Computing* Bernadette Bouchon-Meunier,Ronald R. Yager,Lotfi Asker Zadeh,1995 Soft computing is a new emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems The principal components of soft computing are fuzzy logic neurocomputing genetic algorithms and probabilistic reasoning This volume is a collection of up to date articles giving a snapshot of the current state of the field It covers the whole expanse from theoretical foundations to applications The contributors are among the world leaders in the field Logic, Or, The Morphology of Knowledge Bernard Bosanquet,1911 Explainable Neural Networks Based on Fuzzy Logic and Multi-criteria Decision Tools József Dombi,Orsolya Csiszár,2021-04-28 The research presented in this book shows how combining deep neural networks with a special class of fuzzy logical rules and multi criteria decision tools can make deep neural networks more interpretable and even in many cases more efficient Fuzzy logic together with multi criteria decision making tools provides very powerful tools

for modeling human thinking Based on their common theoretical basis we propose a consistent framework for modeling human thinking by using the tools of all three fields fuzzy logic multi criteria decision making and deep learning to help reduce the black box nature of neural models a challenge that is of vital importance to the whole research community

Quantitative Logic and Soft Computing 2016 Tai-He Fan, Shui-Li Chen, San-Min Wang, Yong-Ming Li, 2016-09-21 This book is the proceedings of the Fourth International Conference on Quantitative Logic and Soft Computing QLSC2016 held 14-17 October 2016 in Zhejiang Sci Tech University Hangzhou China It includes 61 papers of which 5 are plenary talks 3 abstracts and 2 full length talks QLSC2016 was the fourth in a series of conferences on Quantitative Logic and Soft Computing This conference was a major symposium for scientists engineers and practitioners to present their updated results ideas developments and applications in all areas of quantitative logic and soft computing The book aims to strengthen relations between industry research laboratories and universities in fields such as quantitative logic and soft computing worldwide as follows 1 Quantitative Logic and Uncertainty Logic 2 Automata and Quantification of Software 3 Fuzzy Connectives and Fuzzy Reasoning 4 Fuzzy Logical Algebras 5 Artificial Intelligence and Soft Computing 6 Fuzzy Sets Theory and Applications

Fuzziness and Approximate Reasoning Kofi Kissi Dompere, 2009-07-28 We do not perceive the present as it is and in totality nor do we infer the future from the present with any high degree of dependability nor yet do we accurately know the consequences of our own actions In addition there is a fourth source of error to be taken into account for we do not execute actions in the precise form in which they are imaged and willed Frank H Knight R4 34 p 202 The degree of certainty of confidence felt in the conclusion after it is reached cannot be ignored for it is of the greatest practical significance The action which follows upon an opinion depends as much upon the amount of confidence in that opinion as it does upon favorableness of the opinion itself The ultimate logic or psychology of these deliberations is obscure a part of the scientifically unfathomable mystery of life and mind Frank H Knight R4 34 p 226-227 With some inaccuracy description of uncertain consequences can be classified into two categories those which use exclusively the language of probability distributions and those which call for some other principle either to replace or supplement

Fuzzy Approaches for Soft Computing and Approximate Reasoning: Theories and Applications Marie-Jeanne Lesot, Christophe Marsala, 2020-10-26 This book gathers cutting edge papers in the area of Computational Intelligence presented by specialists and covering all major trends in the research community in order to provide readers with a rich primer It presents an overview of various soft computing topics and approximate reasoning based approaches both from theoretical and applied perspectives Numerous topics are covered fundamentals aspects of fuzzy sets theory reasoning approaches interpolative analogical similarity based decision and optimization theory fuzzy databases soft machine learning summarization interpretability and XAI Moreover several application based papers are included e.g. on image processing semantic web and intelligent tutoring systems This book is dedicated to Bernadette Bouchon Meunier in honor of her achievements in Computational Intelligence which throughout her

career have included profuse and diverse collaborations both thematically and geographically *Classical and Fuzzy Concepts in Mathematical Logic and Applications, Professional Version* Mircea S. Reghis, Eugene Roventa, 1998-05-20

Classical and Fuzzy Concepts in Mathematical Logic and Applications provides a broad thorough coverage of the fundamentals of two valued logic multivalued logic and fuzzy logic Exploring the parallels between classical and fuzzy mathematical logic the book examines the use of logic in computer science addresses questions in automatic deduction and describes efficient computer implementation of proof techniques Specific issues discussed include Propositional and predicate logic Logic networks Logic programming Proof of correctness Semantics Syntax Completeness Non contradiction Theorems of Herbrand and Kalman The authors consider that the teaching of logic for computer science is biased by the absence of motivations comments relevant and convincing examples graphic aids and the use of color to distinguish language and metalanguage Classical and Fuzzy Concepts in Mathematical Logic and Applications discusses how the presence of these facts trigger a stirring decisive insight into the understanding process This view shapes this work reflecting the authors subjective balance between the scientific and pedagogic components of the textbook Usually problems in logic lack relevance creating a gap between classroom learning and applications to real life problems The book includes a variety of application oriented problems at the end of almost every section including programming problems in PROLOG III With the possibility of carrying out proofs with PROLOG III and other software packages readers will gain a first hand experience and thus a deeper understanding of the idea of formal proof

Mathematical Principles of Fuzzy Logic Vilém Novák, Irina Perfilieva, J. Mockor, 2012-12-06 Mathematical Principles of Fuzzy Logic provides a systematic study of the formal theory of fuzzy logic The book is based on logical formalism demonstrating that fuzzy logic is a well developed logical theory It includes the theory of functional systems in fuzzy logic providing an explanation of what can be represented and how by formulas of fuzzy logic calculi It also presents a more general interpretation of fuzzy logic within the environment of other proper categories of fuzzy sets stemming either from the topos theory or even generalizing the latter This book presents fuzzy logic as the mathematical theory of vagueness as well as the theory of commonsense human reasoning based on the use of natural language the distinguishing feature of which is the vagueness of its semantics

Logic Programming Jan Maluszynski, 1997-10-10 The themes of the 1997 conference are new theoretical and practical accomplishments in logic programming new research directions where ideas originating from logic programming can play a fundamental role and relations between logic programming and other fields of computer science The annual International Logic Programming Symposium traditionally held in North America is one of the main international conferences sponsored by the Association of Logic Programming The themes of the 1997 conference are new theoretical and practical accomplishments in logic programming new research directions where ideas originating from logic programming can play a fundamental role and relations between logic programming and other fields of computer science Topics include theoretical foundations constraints concurrency and

parallelism deductive databases language design and implementation nonmonotonic reasoning and logic programming and the Internet

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