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Logic And Its Applications Logic And Its Applications

Santiago Escobar,Narciso Martí-Oliet

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invited talks presented at the conference The aim of this conference series is to bring together researchers from a wide variety of fields in which formal logic plays a significant role Areas of interest include mathematical and philosophical logic computer science logic foundations and philosophy of mathematics and the sciences use of formal logic in areas of theoretical computer science and artificial intelligence logic and linguistics and the relationship between logic and other branches of knowledge Of special interest are studies in systems of logic in the Indian tradition and historical research on logic **Introduction to Symbolic Logic and Its Applications** Rudolf Carnap,2012-07-12 Clear comprehensive and rigorous treatment develops the subject from elementary concepts to the construction and analysis of relatively complex logical languages Hundreds of problems examples and exercises 1958 edition **Rewriting Logic and Its Applications** Dorel Lucanu,2016-08-17 This book constitutes the thoroughly refereed post workshop proceedings of the 11th International Workshop on Rewriting Logic and its Applications WRLA 2016 held as a satellite event of ETAPS 2016 in Eindhoven The Netherlands in April 2016 The 8 revised full papers presented together with 2 invited papers and 3 abstracts were carefully reviewed and selected from 14 submissions The papers cover several topics such as foundations rewriting as a logical and semantic framework rewriting languages verification techniques and applications Rewriting Logic and Its Applications Peter Csaba Ölveczky,2010-10-06 This book constitutes the refereed proceedings of the 8th International Workshop on Rewriting Logic and its Applications WRLA 2010 held as a satellite event of ETAPS 2010 Paphos Cyprus in March 2010 The 13 revised full papers presented were carefully reviewed and selected from 29 submissions The papers are organized in topical sections on termination and narrowing tools the K framework applications and semantics maude model checking and debugging and rewrite engines *Rewriting Logic and Its Applications* Santiago Escobar,Narciso Martí-Oliet,2020-12-10 This book constitutes selected papers from the 12th International Workshop on Rewriting Logic and Its Applications WRLA 2020 held in Dublin Ireland in April 2020 Due to the COVID 19 pandemic the workshop took place virtually The 11 full papers presented in this volume were carefully reviewed and selected from 16 submissions Rewriting logic is a natural model of computation and an expressive semantic framework for concurrency parallelism communication and interaction It can be used for specifying a wide range of systems and languages in various application fields **Rewriting Logic and Its Applications** Francisco Durán,2012-10-03 This book constitutes the thoroughly refereed post workshop proceedings of the 9th International Workshop on Rewriting Logic and its Applications WRLA 2012 held as a satellite event of ETAPS 2012 in Tallinn Estonia in March 2012 The 8 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 12 initial submissions and 5 invited lectures The papers address a great diversity of topics in the fields of rewriting logic such as foundations and models languages logical and semantic framework model based software engineering real time and probabilistic extensions verification techniques and distributed systems Rewriting Logic and Its Applications Kyungmin Bae,2022-07-29 This book constitutes selected papers from the refereed proceedings of the 14th

International Workshop on Rewriting Logic and Its Applications WRLA 2022 held in Munich Germany in April 2022 The 9 full papers included in this book were carefully reviewed and selected from 13 submissions They focus on topics in rewriting logic and its applications The book also contains 2 invited papers 2 invited tutorials and an experience report *Logic in Its Application to Language* Robert Gordon Latham,1856 *Fuzzy Logic and its Applications to Engineering, Information Sciences, and Intelligent Systems* Zeungnam Bien,K.C. Min,2012-12-06 Fuzzy technology has emerged as one of the most exciting new concepts available Fuzzy Logic and its Applications covers a wide range of the theory and applications of fuzzy logic and related systems including industrial applications of fuzzy technology implementing human intelligence in machines and systems There are four main themes intelligent systems engineering mathematical foundations and information sciences Both academics and the technical community will learn how and why fuzzy logic is appreciated in the conceptual design and manufacturing stages of intelligent systems gaining an improved understanding of the basic science and the foundations of human reasoning Picture Fuzzy Logic and Its Applications in Decision Making Problems Chiranjibe Jana,Madhumangal Pal,Valentina Emilia Balas,Ronald R. Yager,2023-11-08 Picture Fuzzy Logic and Its Applications in Decision Making Problems provides methodological frameworks and the latest empirical research findings in the field of picture fuzzy operators and their applications in scientific research and real world engineering problems Although fuzzy logic can be applied in a number of different areas many researchers and developers are not yet familiar with how picture fuzzy operators can be applied to a variety of advanced decision making problems Picture fuzzy set is a more powerful tool than fuzzy set or intuitionistic fuzzy set to tackle uncertainty in a variety real world modeling applications Picture fuzzy set is actually the generalization of intuitionistic fuzzy set and intuitionistic fuzzy set is the generalization of fuzzy set In this book the picture fuzzy sets are investigated and different types of operators are defined to solve a number of important decision making and optimization problems The hybrid operator on picture fuzzy set based on the combination of picture fuzzy weighted averaging operators and picture fuzzy weighted geometric operators is developed and named Hybrid Picture Fuzzy Weighted Averaging Geometric H PFWAG operator Another operator is developed for interval valued picture fuzzy environment which is named Hybrid Interval Valued Picture Fuzzy Weighted Averaging Geometric H IVPFWAG operator These two operators are then demonstrated as solutions to Multiple Attribute Decision Making MADM problems The picture fuzzy soft weighted aggregation operators averaging and geometric are defined and these are applied to develop a multi criteria group decision making system The Dombi operator in the picture fuzzy environment is then defined and applied to solve MADM problems Based on the Dombi operator several other operators are defined These are the picture fuzzy Dombi aggregation operators including picture fuzzy Dombi weighted averaging operator picture fuzzy Dombi order weighted averaging operator picture fuzzy Dombi hybrid averaging operator picture fuzzy Dombi weighted geometric operator picture fuzzy Dombi order weighted geometric operator and picture fuzzy Dombi hybrid geometric operator Each of these operators are used to solve

MADM problems An extension picture fuzzy set known as m polar picture fuzzy set is proposed and investigated along with many properties of m polar picture fuzzy Dombi weighted averaging and geometric operators each of these operators are applied to MADM problems Another extension of the picture fuzzy set is the interval valued picture fuzzy uncertain linguistic environment In this set interval valued picture fuzzy uncertain linguistic weighted averaging and geometric operators are developed and interval valued picture fuzzy uncertain linguistic Dombi weighted aggregation operators are utilized in the MADM process In the complex picture fuzzy environment the authors demonstrate some complex picture fuzzy weighted aggregation operators to be used in solving MADM problems Another approach called MABAC with picture fuzzy numbers is studied and developed as a multi attribute group decision making model Furthermore the picture fuzzy linear programming problem PFLPP is initiated in which the parameters are picture fuzzy numbers PFNs The picture fuzzy optimization method is applied for solving the PFLPP This concept is used to solve the picture fuzzy multi objective programming problem PFMOLPP under the picture fuzzy environment Provides in depth explanations of picture fuzzy logic and its application to computational modeling problems Helps readers understand the difference between various fuzzy logic methods Provides concepts used to develop and solve problems within the picture fuzzy environment   Fifty Years of Fuzzy Logic and its Applications Dan E. Tamir,Naphtali D. Rishe,Abraham Kandel,2015-05-23 This book presents a comprehensive report on the evolution of Fuzzy Logic since its formulation in Lotfi Zadeh s seminal paper on fuzzy sets published in 1965 In addition it features a stimulating sampling from the broad field of research and development inspired by Zadeh s paper The chapters written by pioneers and prominent scholars in the field show how fuzzy sets have been successfully applied to artificial intelligence control theory inference and reasoning The book also reports on theoretical issues features recent applications of Fuzzy Logic in the fields of neural networks clustering data mining and software testing and highlights an important paradigm shift caused by Fuzzy Logic in the area of uncertainty management Conceived by the editors as an academic celebration of the fifty years anniversary of the 1965 paper this work is a must have for students and researchers willing to get an inspiring picture of the potentialities limitations achievements and accomplishments of Fuzzy Logic based systems   *Many-sorted Logic and Its Applications* K. Meinke,J. V. Tucker,1993-03-09 Prominent experts present papers which discuss problems regarding this subject Coverage includes case studies in the translation of logics for second order and propositional dynamic logic many sorted algebras and equational logic logical foundations of artificial intelligence along with a variety of methods that exist to encode information program verification techniques such as Floyd Hoare intermittent assertion and temporal logic of programs   **Soft Computing and Its Applications** Kumar S. Ray,2018-10-03 This two volume set explains the primary tools of soft computing as well as provides an abundance of working examples and detailed design studies The books start with coverage of fuzzy sets and fuzzy logic and their various approaches to fuzzy reasoning and go on to discuss several advanced features of soft computing and hybrid methodologies Toge   *Neutrosophic Theory and Its Applications, Vol. I*

Florentin Smarandache,2014-12-01 This volume contains 45 papers written by the author alone or in collaboration with the following co authors Mumtaz Ali Said Broumi Sukanto Bhattacharya Mamoni Dhar Irfan Deli Mincong Deng Alexandru Gal Valeri Kroumov Pabitra Kumar Maji Maikel Leyva Vazquez Feng Liu Pinaki Majumdar Munazza Naz Karina Perez Teruel R dvan Sahin A A Salama Muhammad Shabir Rajshekhar Sunderraman Luige Vladareanu Magdalena Vladila Stefan Vladutescu Haibin Wang Hongnian Yu Yan Qing Zhang   Symbolic Logic and Its Applications Hugh MacColl,1906

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