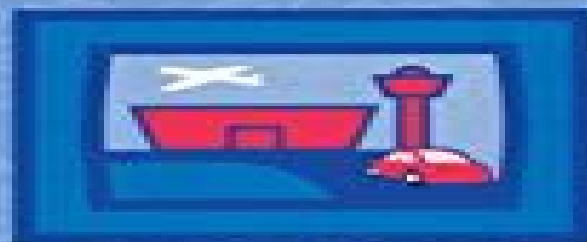


Logic-Based Artificial Intelligence

Edited by Jack Minker



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**Logic Based Artificial Intelligence The Springer
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Logic Based Artificial Intelligence The Springer International Series In Engineering And Computer Science:

Logic-Based Artificial Intelligence Jack Minker, 2000-12-31 The use of mathematical logic as a formalism for artificial intelligence was recognized by John McCarthy in 1959 in his paper on Programs with Common Sense In a series of papers in the 1960 s he expanded upon these ideas and continues to do so to this date It is now 41 years since the idea of using a formal mechanism for AI arose It is therefore appropriate to consider some of the research applications and implementations that have resulted from this idea In early 1995 John McCarthy suggested to me that we have a workshop on Logic Based Artificial Intelligence LBAI In June 1999 the Workshop on Logic Based Artificial Intelligence was held as a consequence of McCarthy s suggestion The workshop came about with the support of Ephraim Glinert of the National Science Foundation IIS 9S2013S the American Association for Artificial Intelligence who provided support for graduate students to attend and Joseph JaJa Director of the University of Maryland Institute for Advanced Computer Studies who provided both manpower and financial support and the Department of Computer Science We are grateful for their support This book consists of refereed papers based on presentations made at the Workshop Not all of the Workshop participants were able to contribute papers for the book The common theme of papers at the workshop and in this book is the use of logic as a formalism to solve problems in AI

Computational Models of Argument Francesco Santini, Carlo Taticchi, 2020-09-15 The investigation of computational models of argument is a rich and fascinating interdisciplinary research field with two ultimate aims the theoretical goal of understanding argumentation as a cognitive phenomenon by modeling it in computer programs and the practical goal of supporting the development of computer based systems able to engage in argumentation related activities with human users or among themselves The biennial International Conferences on Computational Models of Argument COMMA provide a dedicated forum for the presentation and discussion of the latest advancements in the field and cover both basic research and innovative applications This book presents the proceedings of COMMA 2020 Due to the Covid 19 pandemic COMMA 2020 was held as an online event on the originally scheduled dates of 8 11 September 2020 organised by the University of Perugia Italy The book includes 28 full papers and 13 short papers selected from a total of 78 submissions the abstracts of 3 invited talks and 13 demonstration abstracts The interdisciplinary nature of the field is reflected and contributions cover both theory and practice Theoretical contributions include new formal models the study of formal or computational properties of models designs for implemented systems and experimental research Practical papers include applications to medicine law and criminal investigation chatbots and online product reviews The argument mining trend from previous COMMA s is continued while an emerging trend this year is the use of argumentation for explainable AI The book provided an overview of the latest work on computational models of argument and will be of interest to all those working in the field

Artificial Intelligence and Modeling for Water Sustainability Alaa El Din Mahmoud, Manal Fawzy, Nadeem Ahmad Khan, 2023-04-25 Artificial intelligence and the use of computational methods to extract information from data are

providing adequate tools to monitor and predict water pollutants and water quality issues faster and more accurately Smart sensors and machine learning models help detect and monitor dispersion and leakage of pollutants before they reach groundwater With contributions from experts in academia and industries who give a unified treatment of AI methods and their applications in water science this book help governments industries and homeowners not only address water pollution problems more quickly and efficiently but also gain better insight into the implementation of more effective remedial measures FEATURES Provides cutting edge AI applications in water sector Highlights the environmental models used by experts in different countries Discusses various types of models using AI and its tools for achieving sustainable development in water and groundwater Includes case studies and recent research directions for environmental issues in water sector Addresses future aspects and innovation in AI field related to watersustainability This book will appeal to scientists researchers and undergraduate and graduate students majoring in environmental or computer science and industry professionals in water science and engineering environmental management and governmental sectors It showcases artificial intelligence applications in detecting environmental issues with an emphasis on the mitigation and conservation of water and underground resources *Real Life Applications of Soft Computing* Anupam Shukla,Ritu Tiwari,Rahul Kala,2010-05-21

Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications including those in biometric identification interactive voice response systems and data mining Although many resources on the subject adequately cover the theoretical **Software Systems Safety** O. Grumberg,H. Seidl,M. Irlbeck,2014-05-30 Until quite recently the correctness and security of software systems was a largely theoretical problem relevant only for a small group of computer specialists Today it is a fundamental problem for society at large with security breaches in banking software malware attacks and bugs in programs affecting millions of people and making the headlines almost daily The computer science community is developing verification and synthesis tools which will mechanize ever more tasks in the design of secure programs This book presents the papers delivered at the NATO Advanced Study Institute ASI Summer School Marktoberdorf 2013 Software Systems Safety The participants represented research groups from both industry and academia and the subjects covered included software model checking via systematic testing program synthesis E voting systems probabilistic model checking in biology infinite state model checking Boolean satisfiability interactive proof and software security by information flow control The Marktoberdorf Summer School is one of the most renowned international computer science summer schools and this book with its detailed overview of current research results with special emphasis on the solving of software systems security problems will be of interest to all those whose work involves systems security **Rethinking Machine Ethics in the Age of Ubiquitous Technology** White, Jeffrey,Searle, Rick,2015-05-31 As the utilization of intelligent machines spreads to numerous realms the discourse of machine ethics has also developed and expanded Concerns over machine intelligence and

the role of automata in everyday life must be addressed before artificial intelligence and robotic technologies may be fully integrated into human society Rethinking Machine Ethics in the Age of Ubiquitous Technology blends forward looking constructive and interdisciplinary visions of ethical ideals aims and applications of machine technology This visionary reference work incorporates ethical conversations in the fields of technology computer science robotics and the medical industry creating a vibrant dialogue between philosophical ideals and the applied sciences With its broad scope of relevant topics this book serves as an excellent tool for policymakers academicians researchers advanced level students technology developers and government officials This timely publication features thoroughly researched articles on the topics of artificial moral agency cyber warfare transhumanism organic neural nets human worker replacement automaticity and global governance security and surveillance military drones and more

Coronavirus Disease (COVID-19): Pathophysiology, Epidemiology, Clinical Management and Public Health Response (volume I.C) Zisis Kozlakidis, Denise L. Doolan, Shen-Ying Zhang, Yasuko Tsunetsugu Yokota, Tatsuo Shioda, Rukhsana Ahmed, Mohan Jyoti Dutta, Ata Murat Kaynar, Michael Kogut, Hannah Bradby, Slobodan Paessler, Alex Rodriguez-Palacios, Alexis M. Kalergis, Longxiang Su, Abdallah Samy, Zhongheng Zhang, 2023-04-25 Volume I C An outbreak of a respiratory disease first reported in Wuhan China in December 2019 and the causative agent was discovered in January 2020 to be a novel betacoronavirus of the same subgenus as SARS CoV and named severe acute respiratory syndrome coronavirus 2 SARS CoV 2 Coronavirus disease 2019 COVID 19 has rapidly disseminated worldwide with clinical manifestations ranging from mild respiratory symptoms to severe pneumonia and a fatality rate estimated around 2% Person to person transmission is occurring both in the community and healthcare settings The World Health Organization WHO has recently declared the COVID 19 epidemic a public health emergency of international concern The ongoing outbreak presents many clinical and public health management challenges due to limited understanding of viral pathogenesis risk factors for infection natural history of disease including clinical presentation and outcomes prognostic factors for severe illness period of infectivity modes and extent of virus inter human transmission as well as effective preventive measures and public health response and containment interventions There are no antiviral treatment nor vaccine available but fast track research and development efforts including clinical therapeutic trials are ongoing across the world Managing this serious epidemic requires the appropriate deployment of limited human resources across all cadres of health care and public health staff including clinical laboratory managerial and epidemiological data analysis and risk assessment experts It presents challenges around public communication and messaging around risk with the potential for misinformation and disinformation Therefore integrated operational research and intervention learning from experiences across different fields and settings should contribute towards better understanding and managing COVID 19 This Research Topic aims to highlight interdisciplinary research approaches deployed during the COVID 19 epidemic addressing knowledge gaps and generating evidence for its improved management and control It will incorporate critical

theoretically informed and empirically grounded original research contributions using diverse approaches experimental observational and intervention studies conceptual framing expert opinions and reviews from across the world The Research Topic proposes a multi dimensional approach to improving the management of COVID 19 with scientific contributions from all areas of virology immunology clinical microbiology epidemiology therapeutics communications as well as infection prevention and public health risk assessment and management studies

Handbook of Research on Multi-Agent Systems: Semantics and Dynamics of Organizational Models Dignum, Virginia, 2009-03-31 This book provide a comprehensive view of current developments in agent organizations as a paradigm for both the modeling of human organizations and for designing effective artificial organizations Provided by publisher

Research Tendencies and Prospect Domains for AI Development and Implementation Yuriy P. Kondratenko, Anatolii I. Shevchenko, 2024-11-18 This River Rapid explores artificial intelligence AI implementation priorities prospect domains and new research tendencies and trends for AI development and implementation Part 1 is devoted to the world s priorities in AI implementation Its main components are based on the analysis of the 50 National strategies for AI development the world s and NATO s priorities in AI s implementation and methodological aspects for creating the Ukrainian AI conception and strategy key priority areas for the introduction of AI in Ukraine the conscience approach to AI systems design and the discussion on the new generation computer system with embedded AI Special attention is paid to perspectives of AI implementation in education and interrelation and inter influence between AI and educational systems Part 2 is devoted to some new tendencies in AI development and implementation Many scientific results and discussions are directed to some new trends in contemporary AI research AI systems and tools for shipping and shipbuilding quantum computing and color optical fuzzy computing in applied AI s R AI for increasing the efficiency of the decision making processes neural networks for solving classification and recognition tasks This book provides an overview of the recent developments in advanced AI systems including new theoretical findings and successful examples of practical implementation of the AI tools in different areas of human activities The chapters are presented by invited high caliber scientists from different countries Ukraine the United States of America Poland Norway and the People s Republic of China

Big Data Computing Rajendra Akerkar, 2013-12-05 Due to market forces and technological evolution Big Data computing is developing at an increasing rate A wide variety of novel approaches and tools have emerged to tackle the challenges of Big Data creating both more opportunities and more challenges for students and professionals in the field of data computation and analysis Presenting a mix of industry cases and theory Big Data Computing discusses the technical and practical issues related to Big Data in intelligent information management Emphasizing the adoption and diffusion of Big Data tools and technologies in industry the book introduces a broad range of Big Data concepts tools and techniques It covers a wide range of research and provides comparisons between state of the art approaches Comprised of five sections the book focuses on What Big Data is and why it is important Semantic technologies

Tools and methods Business and economic perspectives Big Data applications across industries *Deep Learning in Genetics and Genomics* Khalid Raza,2024-11-28 Deep Learning in Genetics and Genomics vol 1 Foundations and Applications the intersection of deep learning and genetics opens up new avenues for advancing our understanding of the genetic code gene regulation and the broader genomics landscape The book not only covers the most up to date advancements in the field of deep learning in genetics and genomics but also a wide spectrum of sub topics including medical and clinical genetics predictive medicine transcriptomic and gene expression studies In 21 chapters Deep Learning in Genetics and Genomics vol 1 Foundations and Applications describes how AI and DL have become increasingly useful in genetics and genomics research where both play a crucial role by accelerating research improving the understanding of the human genome and enabling personalized healthcare From the fundamentals concepts and practical applications of deep learning algorithms to a wide range of challenging problems from genetics and genomics Deep Learning in Genetics and Genomics vol 1 Foundations and Applications creates a better knowledge of the biological and genetics mechanisms behind disease illnesses and improves the forecasting abilities using the different methodologies described This title offers a unique resource for wider deeper and in depth coverage of recent advancement in deep learning based approaches in genetics and genomics helping researchers process and interpret vast amounts of genetic data identify patterns and make discoveries that would be challenging or impossible using traditional methods Brings together fundamental concepts of genetics genomics and deep learning Includes how to build background of solution methodologies and design of mathematical and logical algorithms Delves into the intersection of deep learning and genetics offering a comprehensive exploration of how deep learning techniques can be applied to various aspects of genomics *Beyond the Worst-Case Analysis of Algorithms* Tim Roughgarden,2021-01-14

There are no silver bullets in algorithm design and no single algorithmic idea is powerful and flexible enough to solve every computational problem Nor are there silver bullets in algorithm analysis as the most enlightening method for analyzing an algorithm often depends on the problem and the application However typical algorithms courses rely almost entirely on a single analysis framework that of worst case analysis wherein an algorithm is assessed by its worst performance on any input of a given size The purpose of this book is to popularize several alternatives to worst case analysis and their most notable algorithmic applications from clustering to linear programming to neural network training Forty leading researchers have contributed introductions to different facets of this field emphasizing the most important models and results many of which can be taught in lectures to beginning graduate students in theoretical computer science and machine learning

Programming Multi-Agent Systems in AgentSpeak using Jason Rafael H. Bordini,Jomi Fred Hübner,Michael Wooldridge,2007-11-12 Jason is an Open Source interpreter for an extended version of AgentSpeak a logic based agent oriented programming language written in Java™ It enables users to build complex multi agent systems that are capable of operating in environments previously considered too unpredictable for computers to handle Jason is easily customisable and

is suitable for the implementation of reactive planning systems according to the Belief Desire Intention BDI architecture

Programming Multi Agent Systems in AgentSpeak using Jason provides a brief introduction to multi agent systems and the BDI agent architecture on which AgentSpeak is based The authors explain Jason s AgentSpeak variant and provide a comprehensive practical guide to using Jason to program multi agent systems Some of the examples include diagrams generated using an agent oriented software engineering methodology particularly suited for implementation using BDI based programming languages The authors also give guidance on good programming style with AgentSpeak

Programming Multi Agent Systems in AgentSpeak using Jason Describes and explains in detail the AgentSpeak extension interpreted by Jason and shows how to create multi agent systems using the Jason platform Reinforces learning with examples problems and illustrations Includes two case studies which demonstrate the use of Jason in practice Features an accompanying website that provides further learning resources including sample code exercises and slides This essential guide to AgentSpeak and Jason will be invaluable to senior undergraduate and postgraduate students studying multi agent systems The book will also be of interest to software engineers designers developers and programmers interested in multi agent systems

Big Data Analytics using Computational Intelligence Approaches Akram Pasha, Syed Ziaur Rahman, 2024-11-21 This book offers an in depth analysis of Big Data Analytics merging the fundamentals of data handling with state of the art computational intelligence methodologies It presents a comprehensive overview of key principles including data storage visualization and algorithmic strategies as well

Formal Ontology in Information Systems Boyan Brodaric, Fabian Neuhaus, 2020-11-15 FOIS is the flagship conference of the International Association for Ontology and its Applications a non profit organization which promotes interdisciplinary research and international collaboration at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general This volume presents the 17 papers accepted for the 11th Formal Ontology in Information Systems conference FOIS 2020 These papers cover a broad range of topics and are organized into 5 groups

Foundations is dedicated to the general ontological decisions providing a foundation for any ontology both from a philosophical perspective and with an emphasis on applications **Social Entities** is dedicated to the ontological analysis and formalization of various social entities including secrets legal theories decisions kinship and cultural heritage The papers in **Intentionality and Embodiment** analyze aspects of an agent s intentions beliefs and desires as well as the embodiment of functional relations The section on **Parts and Wholes** is dedicated to mereology as well as the mereological analysis of certain types of entities e g pluralities information entities and computer programs Lastly the papers in **Methods** are about ontology evaluation and use Altogether the papers reflect traditional FOIS themes with perhaps a greater emphasis on social and agent aspects and will be of interest to all those whose work involves ontology and its applications

Handbook of

Temporal Reasoning in Artificial Intelligence Michael David Fisher, Dov M. Gabbay, Lluís Vila, 2005-03-01 This collection represents the primary reference work for researchers and students in the area of Temporal Reasoning in Artificial Intelligence Temporal reasoning has a vital role to play in many areas particularly Artificial Intelligence Yet until now there has been no single volume collecting together the breadth of work in this area This collection brings together the leading researchers in a range of relevant areas and provides an coherent description of the breadth of activity concerning temporal reasoning in the field of Artificial Intelligence Key Features Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems

PROCEEDINGS OF THE 20TH CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2020 Alexander Ivrii, Ofer Strichman, 2020-09-11 Formal Methods in Computer Aided Design FMCAD is a conference series on the theory and applications of formal methods in hardware and system verification FMCAD provides a leading forum to researchers in academia and industry for presenting and discussing ground breaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system design including verification specification synthesis and testing

Control Systems Vsevolod Kuntsevich, Vyacheslav Gubarev, Yuriy Kondratenko, 2022-09-01 In recent years a considerable amount of effort has been devoted both in industry and academia towards the development of advanced methods of control theory with focus on its practical implementation in various fields of human activity such as space control robotics control applications in marine systems control processes in agriculture and food production Control Systems Theory and Applications consists of selected best papers which were presented at XXIV International conference on automatic control Automatics 2017 September 13 15 2017 Kyiv Ukraine organized by Ukrainian Association on Automatic Control National member organization of IFAC International Federation on Automatic Control and National University of Life and Environmental Sciences of Ukraine More than 120 presentations were discussed at the conference with participation of the scientists from the numerous countries The book is divided into two main parts a first on Theory of Automatic Control 5 chapters and the second on Control Systems Applications 8 chapters The selected chapters provide an overview of challenges in the area of control systems design modeling engineering and implementation and the approaches and techniques that relevant research groups within this area are employing to try to resolve these This book on advanced methods of control theory and successful cases in the practical implementation is ideal for personnel in modern technological processes automation and SCADA systems robotics space and marine industries as well as academic staff and master research students in computerized control systems automatized and computer integrated

systems electrical and mechanical engineering **Handbooks in Operations Research and Management Science** K. Aardal, George L. Nemhauser, R. Weismantel, 2005-12-08 The chapters of this Handbook volume cover nine main topics that are representative of recent theoretical and algorithmic developments in the field In addition to the nine papers that present the state of the art there is an article on the early history of the field The handbook will be a useful reference to experts in the field as well as students and others who want to learn about discrete optimization **International e-Conference of Computer Science 2006** Theodore Simos, 2007-04-30 Lecture Series on Computer and on Computational Sciences LSCCS aims to provide a medium for the publication of new results and developments of high level research and education in the field of computer and computational science In this series only selected proceedings of conferences in all areas of computer science and computational sciences will

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