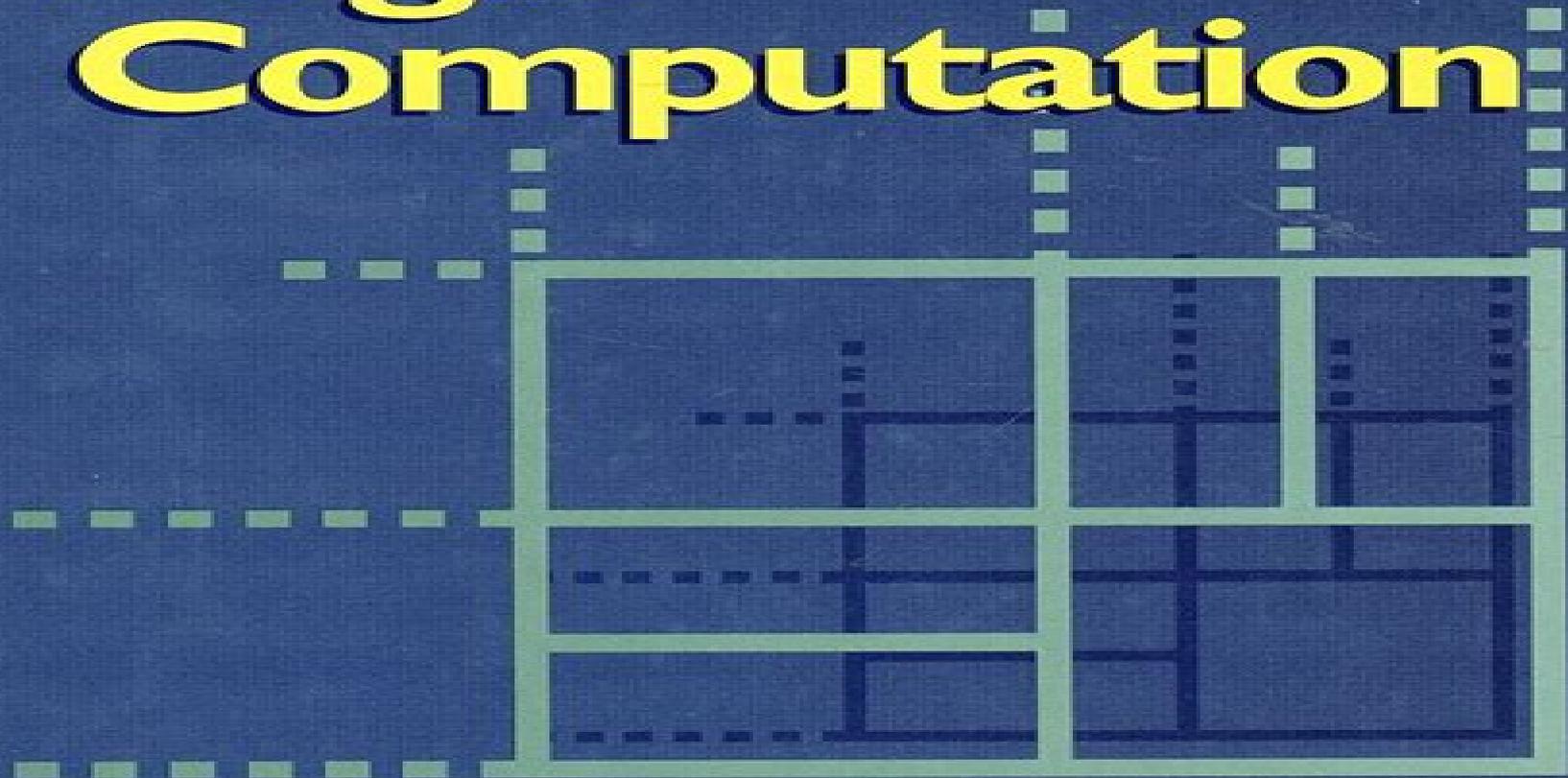


Effective Logic Computation



Klaus Truemper

Effective Logic Computation

Jiyuan Zhang



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Effective Logic Computation K. Truemper, 1998-02-13 A powerful new approach to solving propositional logic problems in the design of expert systems Effective Logic Computation describes breakthrough mathematical methods for computation in propositional logic Offering a highly robust and versatile alternative to the production rule or neural net based approaches commonly used in the design of expert systems Dr Truemper's combinatorial decomposition based approach has produced a compiler that uniquely yields solution algorithms for both logic satisfiability problems and logic minimization problems Also unique to the compiler is computation of a performance guarantee for each solution algorithm Effective Logic Computation provides detailed algorithms for all steps carried out by the compiler Much of the mathematics described in this book has been implemented in the Leibniz System a commercially available software system for logic programming and a leading tool for building expert systems This book's companion volume Design of Intelligent Computer Systems is in preparation and will offer detailed coverage of software implementation and use including a complete version of the Leibniz System Effective Logic Computation is an indispensable working resource for computer scientists and applied mathematicians involved in the design of logic programming software researchers in artificial intelligence and operations researchers

The Blackwell Guide to the Philosophy of Computing and Information Luciano Floridi, 2008-04-15 This Guide provides an ambitious state of the art survey of the fundamental themes problems arguments and theories constituting the philosophy of computing A complete guide to the philosophy of computing and information Comprises 26 newly written chapters by leading international experts Provides a complete critical introduction to the field Each chapter combines careful scholarship with an engaging writing style Includes an exhaustive glossary of technical terms Ideal as a course text but also of interest to researchers and general readers

Martin Davis on Computability, Computational Logic, and Mathematical Foundations Eugenio G. Omodeo, Alberto Policriti, 2017-01-27 This book presents a set of historical recollections on the work of Martin Davis and his role in advancing our understanding of the connections between logic computing and unsolvability The individual contributions touch on most of the core aspects of Davis work and set it in a contemporary context They analyse discuss and develop many of the ideas and concepts that Davis put forward including such issues as contemporary satisfiability solvers essential unification quantum computing and generalisations of Hilbert's tenth problem The book starts out with a scientific autobiography by Davis and ends with his responses to comments included in the contributions In addition it includes two previously unpublished original historical papers in which Davis and Putnam investigate the decidable and the undecidable side of Logic as well as a full bibliography of Davis work As a whole this book shows how Davis scientific work lies at the intersection of computability theoretical computer science foundations of mathematics and philosophy and draws its unifying vision from his deep involvement in Logic

Memristive Neuromorphics: Materials,

Devices, Circuits, Architectures, Algorithms and their Co-Design Huanglong Li, J. Joshua Yang, Hongsik Jeong, 2022-02-21

Quantum Computing National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Computer Science and Telecommunications Board, Committee on Technical Assessment of the Feasibility and Implications of Quantum Computing, 2019-03-27 Quantum mechanics the subfield of physics that describes the behavior of very small quantum particles provides the basis for a new paradigm of computing First proposed in the 1980s as a way to improve computational modeling of quantum systems the field of quantum computing has recently garnered significant attention due to progress in building small scale devices However significant technical advances will be required before a large scale practical quantum computer can be achieved Quantum Computing Progress and Prospects provides an introduction to the field including the unique characteristics and constraints of the technology and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real world problems This report considers hardware and software requirements quantum algorithms drivers of advances in quantum computing and quantum devices benchmarks associated with relevant use cases the time and resources required and how to assess the probability of success *Advances in Computer and Computational Sciences* Sanjiv K. Bhatia, Krishn K.

Mishra, Shailesh Tiwari, Vivek Kumar Singh, 2017-05-25 Exchange of information and innovative ideas are necessary to accelerate the development of technology With advent of technology intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences Keeping this ideology in preference this book includes the insights that reflect the Advances in Computer and Computational Sciences from upcoming researchers and leading academicians across the globe It contains high quality peer reviewed papers of International Conference on Computer Communication and Computational Sciences ICCCCS 2016 held during 12-13 August 2016 in Ajmer India These papers are arranged in the form of chapters The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design advanced communications power and energy optimization intelligent techniques used in internet of things intelligent image processing advanced software engineering evolutionary and soft computing security and many more This book helps the perspective readers from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications

The Future of Artificial Intelligence: Computational Intelligence, Ethical Frameworks, and Societal Impact Dr. Ankush Tulshiram Aundhakar, Dr. Kirti M. Jamdar, 2026-01-21 The Future of Artificial Intelligence Computational Intelligence Ethical Frameworks and Societal Impact presents a comprehensive and interdisciplinary examination of artificial intelligence as both a technological advancement and a transformative force shaping contemporary society As AI systems increasingly influence decision making governance economic structures and human interaction the need for a balanced understanding that integrates technical foundations with ethical and social considerations has become essential This book addresses that need

by offering a holistic perspective on how artificial intelligence is developed applied and governed in real world contexts The book explores artificial intelligence from its conceptual roots to its modern implementations emphasizing how intelligent behavior emerges from computational intelligence adaptive learning and data driven systems It examines the mechanisms through which machines learn reason under uncertainty and support complex decision making processes By focusing on machine learning deep learning and bio inspired computational models the book explains how AI systems achieve performance adaptability and scalability across diverse domains Beyond technical foundations the book critically engages with the ethical dimensions of artificial intelligence It highlights key concerns related to transparency explainability accountability fairness and human autonomy Rather than treating ethics as an external constraint the book integrates ethical reasoning into the discussion of AI design and deployment emphasizing that responsible innovation is central to sustainable technological progress Ethical frameworks are presented as practical tools for guiding decisions in environments where AI systems have significant social impact A central theme of the book is the relationship between artificial intelligence and society It examines how AI reshapes work education healthcare public services and cultural practices while also addressing challenges such as inequality digital divides and access to technology The book emphasizes that AI is not a neutral force but a socio technical system shaped by human choices institutional structures and cultural values Understanding this relationship is essential for ensuring that AI contributes to inclusive and equitable social development The book also addresses the policy and governance challenges associated with the global expansion of artificial intelligence It considers the need for legal accountability regulatory balance and international cooperation in managing AI technologies that operate across borders By examining governance from both national and global perspectives the book highlights the importance of aligning innovation with public trust and societal responsibility Looking toward the future the book explores emerging trends in artificial intelligence including increasing autonomy human centered and collaborative systems and the convergence of AI with other advanced technologies It emphasizes ethical foresight and longterm thinking as essential components of guiding AI development in ways that support human dignity environmental sustainability and social resilience Written in a clear and scholarly style this book is intended for researchers students educators policymakers and practitioners seeking a deep and reflective understanding of artificial intelligence The Future of Artificial Intelligence offers not only technical insight but also ethical and societal guidance positioning AI as a tool that must be shaped deliberately and responsibly to serve human and collective well being in an increasingly automated world

Encyclopedia of Data Warehousing and Mining Wang, John, 2005-06-30 Data Warehousing and Mining DWM is the science of managing and analyzing large datasets and discovering novel patterns and in recent years has emerged as a particularly exciting and industrially relevant area of research Prodigious amounts of data are now being generated in domains as diverse as market research functional genomics and pharmaceuticals intelligently analyzing these data with the aim of answering crucial questions and helping make

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Proceedings of International Conference on Data, Electronics and Computing Nibaran Das, Juwesh Binong, Ondrej Krejcar, Debotosh Bhattacharjee, 2023-11-21 This book features high quality peer reviewed research papers presented at the International Conference on Data Electronics and Computing ICDEC 2022 organized by departments of Electronics and Communication Engineering Computer Applications and Biomedical Engineering North Eastern Hill University Shillong Meghalaya India during 7 9 September 2022 The book covers topics in communication networking and security image video and signal processing cloud computing IoT and smart city AI ML big data and data mining VLSI design antenna and microwave and control

Mem-elements for Neuromorphic Circuits with Artificial Intelligence Applications Christos Volos, Viet-Thanh Pham, 2021-06-17 Mem elements for Neuromorphic Circuits with Artificial Intelligence Applications illustrates recent advances in the field of mem elements memristor memcapacitor meminductor and their applications in nonlinear dynamical systems computer science analog and digital systems and in neuromorphic circuits and artificial intelligence The book is mainly devoted to recent results critical aspects and perspectives of ongoing research on relevant topics all involving networks of mem elements devices in diverse applications Sections contribute to the discussion of memristive materials and transport mechanisms presenting various types of physical structures that can be fabricated to realize mem elements in integrated circuits and device modeling As the last decade has seen an increasing interest in recent advances in mem elements and their applications in neuromorphic circuits and artificial intelligence this book will attract researchers in various fields Covers a broad range of interdisciplinary topics between mathematics circuits realizations and practical applications related to nonlinear dynamical systems nanotechnology analog and digital systems computer science and artificial intelligence Presents recent advances in the field of mem elements memristor memcapacitor meminductor Includes interesting applications of mem elements in nonlinear dynamical systems analog and digital systems neuromorphic circuits computer science and artificial intelligence

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