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SINGH BURNS

Performance and Testability Interactions in Logic Systems Springer Nature

This book is the first of a series of technical reports of a key research project of the Real-World Computing Program supported by the MITI of Japan. The main goal of the project is to model human intelligence by a special class of mathematical systems called neural logic networks. The book consists of three parts. Part 1 describes the general theory of neural logic networks and their potential applications. Part 2 discusses a new logic called Neural Logic which attempts to emulate more closely the logical thinking process of human. Part 3 studies the special features of neural logic networks which resemble the human intuition process. This book should appeal to researchers in artificial intelligence, neural computings and logic, as well as graduate and advance undergraduate students in computer science.

Special Issue on Multi-valued Logic Systems Macmillan College

This volume contains the papers presented at the 3rd International Symposium on Foundations of Information and Knowledge Systems (FoIKS2004), which was held in Castle Wilhelminenberg, Vienna, Austria, from February 17th to 20th, 2004. FoIKS is a biennial event focussing on theoretical foundations of information and knowledge systems. It aims at bringing together researchers working on the theoretical foundations of information and knowledge systems and attracting researchers working in mathematical fields such as discrete mathematics, combinatorics, logics, and finite model theory who are interested in applying their theories to research on database and knowledge base theory. FoIKS took up the tradition of the conference series Mathematical Fundamentals of Database Systems (MFDBS) which enabled East-West collaboration in the field of database theory. The first FoIKS symposium was held in Burg, Spreewald (Germany) in 2000, and the second FoIKS symposium was held in Salzwedel (Germany) in 2002.

Former MFDBS conferences were held in Dresden (Germany) in 1987, Visegrád (Hungary) in 1989, and in Rostock (Germany) in 1991. Proceedings of these previous events were published by Springer-Verlag as volumes 305, 364, 495, 1762, and 2284 of the LNCS series, respectively. In addition the FoIKS symposium was intended to be a forum for intensive discussions. For this reason the time slots for long and short contributions were 50 and 30 minutes, respectively, followed by 20 and 10 minutes for discussions, respectively. Furthermore, participants were asked in advance to prepare to act as correspondents for the contributions of other authors. There were also special sessions for the presentation and discussion of open research problems.

Logic Systems BoD - Books on Demand

This book presents research in an interdisciplinary field, resulting from the vigorous and fruitful cross-pollination between traditional deontic logic and computer science. AI researchers have used deontic logic as one of the tools in modelling legal reasoning. Computer scientists have discovered that computer systems (including their interaction with other computer systems and with human agents) can often be productively modelled as norm-governed. So, for example, deontic logic has been applied by computer scientists for specifying bureaucratic systems, access and security policies, and soft design or integrity constraints, and for modelling fault tolerance. In turn, computer scientists and AI researchers have also discovered (and made it clear to the rest of us) that various formal tools (e.g. nonmonotonic, temporal and dynamic logics) developed in computer science and artificial intelligence have interesting applications to traditional issues in deontic logic. This volume presents some of the best work done in this area, with the selection at once reflecting the general interdisciplinary (and international) character that this area of research has taken on, as well as reflecting the more specific recent inter-disciplinary developments between traditional deontic logic and computer science.

N4 Logic Systems Prentice Hall

This book outlines a set of issues that are critical to all of parallel architecture--communication latency, communication bandwidth, and coordination of cooperative work (across modern designs). It

describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact.

Electronic Logic Systems Gulf Professional Publishing

This book provides an overview of the state-of-the-art in both the theory and methods of intuitionistic fuzzy logic, partial differential equations and numerical methods in informatics. Covering topics such as fuzzy intuitionistic Hilbert spaces, intuitionistic fuzzy differential equations, fuzzy intuitionistic metric spaces, and numerical methods for differential equations, it discusses applications such as fuzzy real-time scheduling, intelligent control, diagnostics and time series prediction. The book features selected contributions presented at the 6th international congress of the Moroccan Applied Mathematics Society, which took place at Sultan Moulay Slimane University Beni Mellal, Morocco, from 7 to 9 November 2019.

Neural Logic Networks World Scientific

Fuzzy logic systems have been a hot topic in the scientific and academic community for more than half a century. The idea of making machines behave and make decisions like humans do is astounding. The development and implementation of fuzzy logic systems can be seen in various real physical applications in daily human life. The methods employed using fuzzy logic have resulted in innovative technologies. This book provides insights into understanding the principles and concepts behind the advances of fuzzy logic systems. It presents ideas concerning fuzzy logic systems and their technological applications. The book is arranged into two sections on theories and foundations of fuzzy logic systems and implementations of fuzzy logic systems in service to the community.

Recent Advances in Intuitionistic Fuzzy Logic Systems and Mathematics Springer

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