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Mathematical Foundations of Parallel Computing

Valentin V. Voevodin

World Scientific

Mathematical Foundation Of Parallel Computing

Wojciech Penczek, Andrzej Szalas



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Theoretical and Mathematical Foundations of Computer Science Qihai Zhou, 2011-10-29 This book constitutes the refereed post proceedings of the Second International Conference on Theoretical and Mathematical Foundations of Computer Science ICTMF 2011 held in Singapore in May 2011. The conference was held together with the Second International Conference on High Performance Networking Computing and Communication systems ICHCC 2011 which proceedings are published in CCIS 163. The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book. The topics covered range from computational science engineering and technology to digital signal processing and computational biology to game theory and other related topics.

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computing semantics and verification Mathematical Foundations of Computer Science 1996 Wojciech Penczek, Andrzej Szalas, 1996-08-07 This book constitutes the refereed proceedings of the 21st International Symposium on Mathematical Foundations of Computer Science MFCS 96 held in Crakow Poland in September 1996 The volume presents 35 revised full papers selected from a total of 95 submissions together with 8 invited papers and 2 abstracts of invited talks The papers included cover issues from the whole area of theoretical computer science with a certain emphasis on mathematical and logical foundations The 10 invited presentations are of particular value **Mathematical Foundations of Computer Science**, 2005 Mathematical Foundations of Computer Science 1997 Igor Privara, 1997-08-13 This book constitutes the refereed post conference proceedings of the Second International Andrei Ershov Memorial Conference on System Informatics held in Akademgorodok Novosibirsk Russia in June 1996 The 27 revised full papers presented together with 9 invited contributions were thoroughly refereed for inclusion in this volume The book is divided in topical sections on programming methodology artificial intelligence natural language processing machine learning dataflow and concurrency models parallel programming supercompilation partial evaluation object oriented programming semantics and abstract interpretation programming and graphical interfaces and logic programming **Mathematical Foundations of Computer Science 2007** Ludek Kucera, 2007-08-15 This book constitutes the refereed proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science MFCS 2007 held in Cesk Krumlov Czech Republic August 2007 The 61 revised full papers presented together with the full papers or abstracts of five invited talks address all current aspects in theoretical computer science and its mathematical foundations **A Practical Approach to High-Performance Computing** Sergei Kurgalin, Sergei Borzunov, 2019-11-10 The book discusses the fundamentals of high performance computing The authors combine visualization comprehensibility and strictness in their material presentation and thus influence the reader towards practical application and learning how to solve real computing problems They address both key approaches to programming modern computing systems multithreading based parallelizing in shared memory systems and applying message passing technologies in distributed systems The book is suitable for undergraduate and graduate students and for researchers and practitioners engaged with high performance computing systems Each chapter begins with a theoretical part where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming and concludes with a list of test questions and problems of varying difficulty The authors include many solutions and hints and often sample code

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