

World Scientific Series in Computer Sciences Vol. 33

# **Mathematical Foundations of Parallel Computing**

*Valentin V. Voevodin*



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***Mathematical Foundations of Computer Science 1993*** Andrzej M. Borzyszkowski, 1993-08-18 This volume contains the proceedings of the 18th International Symposium on Mathematical Foundations of Computer Science MFCS 93 held in

Gdansk Poland August September 1993 The MFCS symposia organized annually in Poland and the former Czechoslovakia since 1972 have a long and well established tradition Over the years they have served as a meeting ground for specialists from all branches of theoretical computer science in particular algorithms and complexity automata theory and theory of languages concurrent distributed and real time systems the theory of functional logic and object oriented programming lambda calculus and type theory semantics and logics of programs and others The volume contains 12 invited lectures and 56 contributed papers selected from 133 submissions

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**and Communications** National Research Council (U.S.). Panel on the Mathematical Sciences in High-Performance

Computing and Communications, Avner Friedman, 1991

### **Scientific Parallel Computing**

Larkin Ridgway Scott, Terry Clark, Babak Bagheri, 2021-03-09 What does Google's management of billions of Web pages have in common with analysis of a genome with billions of nucleotides Both apply methods that coordinate many processors to accomplish a single task From mining genomes to the World Wide Web from modeling financial markets to global weather patterns parallel computing enables computations that would otherwise be impractical if not impossible with sequential approaches alone Its fundamental role as an enabler of simulations and data analysis continues an advance in a wide range of application areas Scientific Parallel Computing is the first textbook to integrate all the fundamentals of parallel computing in a single volume while also providing a basis for a deeper understanding of the subject Designed for graduate and advanced undergraduate courses in the sciences and in engineering computer science and mathematics it focuses on the three key areas of algorithms architecture languages and their crucial synthesis in performance The book's computational examples whose math prerequisites are not beyond the level of advanced calculus derive from a breadth of topics in scientific and engineering simulation and data analysis The programming exercises presented early in the book are designed to bring students up to speed quickly while the book later develops projects challenging enough to guide students toward research questions in the field The new paradigm of cluster computing is fully addressed A supporting web site provides access to all the codes and software mentioned in the book and offers topical information on popular parallel computing systems Integrates all the fundamentals of parallel computing essential for today's high performance requirements Ideal for graduate and advanced undergraduate students in the sciences and in engineering computer science and mathematics Extensive programming and theoretical exercises enable students to write parallel codes quickly More challenging projects later in the book introduce research questions New paradigm of cluster computing fully addressed Supporting web site provides access to all the codes and software mentioned in the book

### **Mathematical Foundations of Computer Science 2014**

Ersébet Csuhaj-Varjú, Martin Dietzfelbinger, Zoltán Ésik, 2014-08-12 This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science MFCS 2014 held in Budapest Hungary in August 2014 The 95 revised full papers presented together with 6 invited talks

were carefully selected from 270 submissions The focus of the conference was on following topics Logic Semantics Automata Theory of Programming Algorithms Complexity Parallel and Distributed Computing Quantum Computing Automata Grammars and Formal Languages Combinatorics on Words Trees and Games     Mathematical Foundations of Computer Science 1975 J. Becvar, 1975-08-15     Mathematical Foundations of Computer Science 1978 Józef Winkowski, J. Winkowski, 1978-08     **Proceedings of the ... IBM Symposium on Mathematical Foundations of Computer Science** , 1979     **25th Annual Symposium on Foundations of Computer Science** IEEE Computer Society. Technical Committee on Mathematical Foundations of Computing, 1984     **Foundations of Parallel Programming** Theodore Gyle Lewis, 1993 Mathematics of Computing Parallelism

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