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# Mathematical Foundations of Computer Science 2010

35th International Symposium, MFCS 2010  
Brno, Czech Republic, August 2010  
Proceedings



Springer

**Mathematical Foundations Of Computer Science 1998**  
**23rd International Symposium Mfcs 98 Brnmo Czech**  
**Republic August 24-28 1998**

**Krzysztof Diks, Wojciech Rytter**



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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 **Mathematical Foundations of Computer Science 2001** Jiri Sgall, Ales Pultr, Petr Kolman, 2003-08-06 This book constitutes the refereed proceedings of the 26th International Symposium on Mathematical Foundations of Computer Science MFCS 2001 held in Mariánské Lázně Czech Republic in August 2001. The 51 revised full papers presented together with 10 invited contributions were carefully reviewed and selected from a total of 118 submissions. All current aspects of theoretical computer science are addressed ranging from mathematical logic and programming theory to algorithms, discrete mathematics and complexity theory. Besides classical issues, modern topics like quantum computing are discussed as well. **Mathematical Foundations of Computer Science 1995** Jiri Wiedermann, Petr Hajek, 1995-08-16 This book presents the proceedings of the 20th International Symposium on Mathematical Foundations of Computer Science MFCS 95 held in Prague, Czech Republic, in August-September 1995. The book contains eight invited papers and two abstracts of invited talks by outstanding scientists as well as 44 revised full research papers selected from a total of 104 submissions. All relevant aspects of theoretical computer science are addressed, particularly the mathematical foundations. The papers are organized in sections on structural complexity, algorithms, complexity theory, graphs in models of computation, lower bounds, formal languages, unification, rewriting and type theory, distributed computation, concurrency, semantics, model checking and formal calculi. **Mathematical Foundations of Computer Science 1995** Jiri Wiedermann, Petr Hajek, 2014-10-08 This book presents the proceedings of the 20th International Symposium on Mathematical Foundations of Computer Science MFCS 95 held in Prague, Czech Republic, in August-September 1995. The book contains eight invited papers and two abstracts of invited talks by outstanding scientists as well as 44 revised full research papers selected from a total of 104 submissions. All relevant aspects of theoretical computer science are addressed, particularly the mathematical foundations. The papers are organized in sections on structural complexity, algorithms, complexity theory, graphs in models of computation, lower bounds, formal languages, unification, rewriting and type theory, distributed computation, concurrency, semantics, model checking and formal calculi.

*Mathematical Foundations of Computer Science 1999* Mirosław Kutylowski, Leszek Pacholski, Tomasz Wierzbicki, 2007-07-16 This volume contains papers selected for presentation during the 24th International Symposium on Mathematical Foundations of Computer Science held on September 6-10, 1999, in Szklarska Poręba, Poland. The symposium organized alternately in the Czech Republic, Slovakia and Poland focuses on theoretical aspects and mathematical foundations of computer science. The scientific program of the symposium consists of five invited talks given by Martin Dyer, Dexter Kozen, Giovanni Manzini, Sergio Rajsbaum, and Mads Tofte, and 37 accepted papers chosen out of 68 submissions. The volume contains all accepted contributed papers and three invited papers. The contributed papers have been selected for presentation based on their scientific quality, novelty, and interest for the general audience of MFCS participants. Each paper

has been reviewed by at least three independent referees PC members and or sub referees appointed by them The papers were selected for presentation during a fully electronic virtual meeting of the program committee on May 7 1999 The virtual PC meeting was supported by software written by Artur Zgoda Ph D student at the University of Wroclaw The entire communication and access to quite a sensitive database at PC headquarters in Wroclaw was secured by cryptographic protocols based on technology of certificates     Mathematical Foundations of Computer Science 1993 Andrzej M.

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*Mathematical Foundations of Computer Science 2000* Mogens Nielsen,Branislav Rován,2003-06-29 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book     **Mathematical Foundations of Computer Science 2012** Branislav Rován,Vladimiro Sassone,Peter

Widmayer,2012-08-01 This volume constitutes the refereed proceedings of the 37th International Symposium on Mathematical Foundations of Computer Science MFCS 2012 held in Bratislava Slovakia in August 2012 The 63 revised full papers presented together with 8 invited talks were carefully reviewed and selected from 162 submissions Topics covered include algorithmic game theory algorithmic learning theory algorithms and data structures automata formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory databases and knowledge based systems foundations of computing logic in computer science models of computation semantics and verification of programs and theoretical issues in artificial intelligence     **Mathematical Foundations of Computer**

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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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