

Mathematical Foundations Of Computer Networking

This book constitutes the refereed proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS 2003, held in Bratislava, Slovakia in August 2003. The 55 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 137 submissions. All current aspects in theoretical computer science are addressed, ranging from discrete mathematics, combinatorial optimization, graph theory, networking, algorithms, and complexity to programming theory, formal methods, and mathematical logic.

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.

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.

To truly understand how the Internet and Web are organized and function requires knowledge of mathematics and computation theory. Mathematical and Algorithmic Foundations of the Internet introduces the concepts and methods upon which computer networks rely and explores their applications to the Internet and Web. The book offers a unique approach to mathematical and algorithmic concepts, demonstrating their universality by presenting ideas and examples from various fields, including literature, history, and art. Progressing from fundamental concepts to more specific topics and applications, the text covers computational complexity and randomness, networks and graphs, parallel and distributed computing, and search engines. While the mathematical treatment is rigorous, it is presented at a level that can be grasped by readers with an elementary mathematical background. The authors also present a lighter side to this complex subject by illustrating how many of the mathematical concepts have counterparts in everyday life. The book provides in-depth coverage of the mathematical prerequisites and assembles a complete presentation of how computer networks function. It is a useful resource for anyone interested in the inner functioning, design, and organization of the

Internet.

Mathematical Foundations of Computer Science 2003

Mathematical Foundations of Computer Networking

Mathematical Foundations of Computer Science 1997

23rd International Conference, FOSSACS 2020, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020, Dublin, Ireland, April 25–30, 2020, Proceedings

6th Symposium, Tatranska Lomnica September 5-9, 1977. Proceedings

Mathematical Foundations of Computer Science 2012

37th International Symposium, MFCS 2012, Bratislava, Slovakia, August 27-31, 2012, Proceedings

This book constitutes the refereed proceedings of the 27th International Symposium on Mathematical Foundations of Computer Science, MFCS 2002, held in Warsaw, Poland in August 2002. The 48 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 108 submissions. All relevant aspects of theoretical computer science are addressed, ranging from discrete mathematics, combinatorial optimization, graph theory, algorithms, and complexity to programming theory, formal methods, and mathematical logic.

This book constitutes the refereed proceedings of the 30th International Symposium on Mathematical Foundations of Computer Science, MFCS 2005, held in Gdansk, Poland in August/September 2005. The 62 revised full papers presented together with full papers or abstracts of 7 invited talks were carefully reviewed and selected from 137 submissions. All current aspects in theoretical computer science are addressed, ranging from quantum computing, approximation, automata, circuits, scheduling, games, languages, discrete mathematics, combinatorial optimization, graph theory, networking, algorithms, and complexity to programming theory, formal methods, and mathematical logic.

"To design future networks that are worthy of society's trust, we must put the 'discipline' of computer networking on a much stronger foundation. This book rises above the considerable minutiae of today's networking technologies to emphasize the long-standing mathematical underpinnings of the field." –Professor Jennifer Rexford, Department of Computer Science, Princeton University "This book is exactly the one I have been waiting for the last couple of years. Recently, I decided most students were already very familiar with the way the net works but were not being taught the fundamentals—the math. This book contains the knowledge for people who will create and understand future communications systems." –Professor Jon Crowcroft, The Computer Laboratory, University of Cambridge The Essential Mathematical Principles Required to Design, Implement, or Evaluate Advanced Computer Networks Students, researchers, and professionals in computer networking require a firm conceptual understanding of its foundations. Mathematical Foundations of Computer Networking provides an intuitive yet rigorous introduction to these essential mathematical principles and techniques. Assuming a basic grasp of calculus, this book offers sufficient detail to serve as the only reference many readers will need. Each concept is described in four ways: intuitively; using appropriate mathematical notation; with a numerical example carefully chosen for its relevance to networking; and with a numerical exercise for the reader. The first part of the text presents basic concepts, and the second part introduces four theories in a progression that has been

designed to gradually deepen readers' understanding. Within each part, chapters are as self-contained as possible. The first part covers probability; statistics; linear algebra; optimization; and signals, systems, and transforms. Topics range from Bayesian networks to hypothesis testing, and eigenvalue computation to Fourier transforms. These preliminary chapters establish a basis for the four theories covered in the second part of the book: queueing theory, game theory, control theory, and information theory. The second part also demonstrates how mathematical concepts can be applied to issues such as contention for limited resources, and the optimization of network responsiveness, stability, and throughput.

This two volume set LNCS 9234 and 9235 constitutes the refereed conference proceedings of the 40th International Symposium on Mathematical Foundations of Computer Science, MFCS 2015, held in Milan, Italy, in August 2015. The 82 revised full papers presented together with 5 invited talks were carefully selected from 201 submissions. The papers feature high-quality research in all branches of theoretical computer science. They have been organized in the following topical main sections: logic, semantics, automata, and theory of programming (volume 1) and algorithms, complexity, and games (volume 2).

Mathematical Foundations of Computer Science 2014

7th Symposium Zakopane, Poland, September 4-8, 1978. Proceedings

33rd International Symposium, MFCS 2008, Torun, Poland, August 25-29, 2008, Proceedings

32nd International Symposium, MFCS 2007 Český Krumlov, Czech Republic, August 26-31, 2007, Proceedings

Mathematical Foundations of Computer Science 1981

21st International Symposium, MFCS' 96, Crakow, Poland, September 2 - 6, 1996. Proceedings

19th International Symposium, MFCS'94, Kosice, Slovakia, August 22 - 26, 1994. Proceedings

This book constitutes the refereed proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS 2007, held in Český 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.

The subject of Neural Networks is being seen to be coming of age, after its initial inception 50 years ago in the seminal work of McCulloch and Pitts. It is proving to be valuable in a wide range of academic disciplines and in important applications in industrial and business tasks. The progress being made in each approach is considerable. Nevertheless, both stand in need of a theoretical framework of explanation to underpin their usage and to allow the progress being made to be put on a firmer footing. This book aims to strengthen the foundations in its presentation of mathematical approaches to neural networks. It is through these that a suitable explanatory framework is expected to be found. The approaches span a broad range, from single neuron details to numerical analysis, functional analysis and dynamical systems theory. Each of

these avenues provides its own insights into the way neural networks can be understood, both for artificial ones and simplified simulations. As a whole, the publication underlines the importance of the ever-deepening mathematical understanding of neural networks.

This book constitutes the refereed proceedings of the 23rd International Symposium on the Mathematical Foundations of Computer Science, MFCS'98, held in Brno, Czech Republic, in August 1998. The 71 revised full papers presented were carefully reviewed and selected from a total of 168 submissions. Also included are 11 full invited surveys by prominent leaders in the area. The papers are organized in topical sections on problem complexity; logic, semantics, and automata; rewriting; automata and transducers; typing; concurrency, semantics, and logic; circuit complexity; programming; structural complexity; formal languages; graphs; Turing complexity and logic; binary decision diagrams, etc..

This open access book constitutes the proceedings of the 23rd International Conference on Foundations of Software Science and Computational Structures, FOSSACS 2020, which took place in Dublin, Ireland, in April 2020, and was held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020. The 31 regular papers presented in this volume were carefully reviewed and selected from 98 submissions. The papers cover topics such as categorical models and logics; language theory, automata, and games; modal, spatial, and temporal logics; type theory and proof theory; concurrency theory and process calculi; rewriting theory; semantics of programming languages; program analysis, correctness, transformation, and verification; logics of programming; software specification and refinement; models of concurrent, reactive, stochastic, distributed, hybrid, and mobile systems; emerging models of computation; logical aspects of computational complexity; models of software security; and logical foundations of data bases.?

27th International Symposium, MFCS 2002, Warsaw, Poland, August 26-30, 2002. Proceedings
Mathematical Foundations for Signal Processing, Communications, and Networking

35th International Symposium, MFCS 2010, Brno, Czech Republic, August 23-27, 2010, Proceedings
Mathematics for Machine Learning

12th Symposium held at Bratislava, Czechoslovakia, August 25-29, 1986. Proceedings
Mathematical Foundations of Computer Science 2009

Mathematical Approaches to Neural Networks

This volume constitutes the refereed proceedings of the 36th International Symposium on Mathematical Foundations of Computer

Science, MFCS 2011, held in Warsaw, Poland, in August 2011. The 48 revised full papers presented together with 6 invited talks were carefully reviewed and selected from 129 submissions. Topics covered include algorithmic game theory, algorithmic learning theory, algorithms and data structures, automata, grammars and formal languages, bioinformatics, complexity, computational geometry, computer-assisted reasoning, concurrency theory, cryptography and security, databases and knowledge-based systems, formal specifications and program development, foundations of computing, logic in computer science, mobile computing, models of computation, networks, parallel and distributed computing, quantum computing, semantics and verification of programs, and theoretical issues in artificial intelligence.

Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

The 2009 International Conference on High-Performance Networking, Computing and Communication Systems and the 2009 International Conference on Theoretical and Mathematical Foundations of Computer Science (ICHCC -ICTMF 2009) were held during December 13–14, 2009, in Sanya, Hainan Island, China. ICHCC -ICTMF 2009 was a comprehensive conference focused on the various aspects of advances in high-performance networking, computing, communication systems and mathematical foundations. The conferences provided a chance for academic and industry professionals to discuss recent progress in the area of high-performance networking, computing, communication systems and mathematical foundations. The conferences were co-sponsored by the Intelligent Information Technology Application Research Association, Hong Kong and Wuhan Institute of Technology, China. The goal was to bring together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of this area. We received 60 submissions. Every paper was reviewed by three Program Committee members, and 15 were selected as regular papers for ICHCC -ICTMF 2009, representing a 25% acceptance rate for regular papers. The participants of the conference had the chance to hear from renowned keynote speakers Jun Wang from The Chinese University of Hong Kong, Hong Kong and Chin-Chen Chang from Feng Chia University, Taiwan. We thank Springer, who enthusiastically supported our conference. Thanks also go to Leonie Kunz for her wonderful editorial assistance. We would also like to thank the Program Chairs, organization staff, and the members of the Program Committees for their hard work.

This latest addition to the successful Network Biology series presents current methods for determining the entropy of networks, making it the first to cover the recently established Quantitative Graph Theory. An excellent international team of editors and contributors provides an up-to-date outlook for the field, covering a broad range of graph entropy-related concepts and methods. The topics range from analyzing mathematical properties of methods right up to applying them in real-life areas. Filling a gap in the contemporary literature this is an invaluable reference for a number of disciplines, including mathematicians, computer scientists, computational biologists, and structural chemists.

Mathematical Foundations of Computer Science 2008

Mathematical Foundations of Computer Science 1978

Mathematical Foundations of Computer Science 1996

23rd International Symposium, MFCS'98, Brno, Czech Republic, August 24-28, 1998

Mathematical Foundations of Computer Science 2005

34th International Symposium, MFCS 2009, Novy Smokovec, High Tatras, Slovakia, August 24-28, 2009, Proceedings

26th International Symposium, MFCS 2001 Marianske Lazne, Czech Republic, August 27-31, 2001 Proceedings

From the exciting history of its development in ancient times to the present day, *Introduction to Cryptography with Mathematical Foundations and Computer Implementations* provides a focused tour of the central concepts of cryptography. Rather than present an encyclopedic treatment of topics in cryptography, it delineates cryptographic concepts in chronological order, developing the mathematics as needed. Written in an engaging yet rigorous style, each chapter introduces important concepts with clear definitions and theorems. Numerous examples explain key points while figures and tables help illustrate more difficult or subtle concepts. Each chapter is punctuated with "Exercises for the Reader;" complete solutions for these are included in an appendix. Carefully crafted exercise sets are also provided at the end of each chapter, and detailed solutions to most odd-numbered exercises can be found in a designated appendix. The computer implementation section at the end of every chapter guides students through the process of writing their own programs. A supporting website provides an extensive set of sample programs as well as downloadable platform-independent applet pages for some core programs and algorithms. As the reliance on cryptography by business, government, and industry continues and new technologies for transferring data become available, cryptography plays a permanent, important role in day-to-day operations. This self-contained sophomore-level text traces the evolution of the field, from its origins through present-day cryptosystems, including public key cryptography and elliptic curve cryptography.

This volume contains 11 invited lectures and 42 communications presented at the 13th Conference on Mathematical Foundations of Computer Science, MFCS '88, held at Carlsbad, Czechoslovakia, August 29 - September 2, 1988. Most of the papers present material from the following four fields: - complexity theory, in particular structural complexity, - concurrency and parallelism, - formal language theory, - semantics. Other areas treated in the proceedings include functional programming, inductive syntactical synthesis, unification algorithms, relational databases and incremental attribute evaluation.

Mathematical Foundations for Signal Processing, Communications, and Networking describes mathematical concepts and results important in the design, analysis, and optimization of signal processing algorithms, modern communication systems, and networks. Helping readers master key techniques and comprehend the current research literature, the book offers a comprehensive overview of methods and applications from linear algebra, numerical analysis, statistics, probability, stochastic processes, and optimization. From basic transforms to Monte Carlo simulation to linear programming, the text covers a broad range of mathematical techniques essential to understanding the concepts and results in signal processing, telecommunications,

and networking. Along with discussing mathematical theory, each self-contained chapter presents examples that illustrate the use of various mathematical concepts to solve different applications. Each chapter also includes a set of homework exercises and readings for additional study. This text helps readers understand fundamental and advanced results as well as recent research trends in the interrelated fields of signal processing, telecommunications, and networking. It provides all the necessary mathematical background to prepare students for more advanced courses and train specialists working in these areas.

This volume constitutes the proceedings of the 19th International Symposium on Mathematical Foundations of Theoretical Computer Science, MFCS '94, held in Kosice, Slovakia in August 1994. MFCS '94 brought together specialists in theoretical fields of computer science from various countries in order to stimulate mathematical research in theoretical computer science. Besides 12 papers based on invited talks by renowned experts, the book contains 42 research contributions selected from a total of 112 submissions. All areas of theoretical computer science are presented, some from a particular mathematical point of view.

Theory and Applications

Foundations of Chemical Reaction Network Theory

Formal Methods for Information Protection Technology. Task 2: Mathematical Foundations, Architecture and Principles of Implementation of Multi-Agent Learning Components for Attack Detection in Computer Networks

Mathematical and Algorithmic Foundations of the Internet

Foundations of Software Science and Computation Structures

Mathematical Foundations of Computer Science 1986

25th International Symposium, MFCS 2000 Bratislava, Slovakia, August 28 - September 1, 2000 Proceedings

This report results from a contract tasking St. Petersburg Institute For Informatics & Automation of the Russian Academy of Sciences as follows: Formal Methods for Information Protection Technology The use of open computer networks as an environment for exchange of information across the globe in distributed applications requires improved security measures on the network, in particular, to information resources used in applications. Integrity, confidentiality and availability of the network resources must be assured. To detect and suppress different types of computer unauthorized intrusions, modern network security systems (NSS) must be armed with various protection means and be able to accumulate experience in order to increase its ability to front against known types of intrusions, and to learn new types of intrusions. The project will perform three main tasks. 1. Develop a mathematical model and a tool that simulates various coordinated intrusion scenarios against computer networks; 2. Develop the mathematical foundations, architecture, and principles of implementation of autonomous-software-tool technology implementing the learning system for intrusion detection; 3. Develop the fundamentals, architecture and software for the computer security system based on multi-level encoding for information protection in mass application. Currently, scientific efforts in network security area are undertaken mainly in the development of the network defense mechanisms. Unfortunately, substantially less attention is paid to the study of the nature of

intrusions and, in particular, remote distributed intrusion attempts. No appropriate tools for intrusion/attack simulation nor research on a formal framework for intrusion specification exists.

The use of open computer networks as an environment for exchange of information across the globe in distributed applications requires improved security measures on the network, in particular, to information resources used in applications. Integrity, confidentiality and availability of the network resources must be assured. To detect and suppress different types of computer unauthorized intrusions, modern network security systems (NSS) must be armed with various protection means and be able to accumulate experience in order to increase its ability to front against known types of intrusions, and to learn new types of intrusions. The project will perform three main tasks. 1. Develop a mathematical model and a tool that simulates various coordinated intrusion scenarios against computer networks; 2. Develop the mathematical foundations, architecture, and principles of implementation of autonomous-software-tool technology implementing the learning system for intrusion detection; 3. Develop the fundamentals, architecture and software for the computer security system based on multi-level encoding for information protection in mass application. To detect and suppress different types of computer intrusions, modern NSS must be able to accumulate experience in order to increase its ability to front against known type of attacks/intrusions and to learn unknown simple and complex, local and distributed types of attacks. This requires the use of a powerful intelligent learning subsystem (LS) in NSS. That is why the second task of the project concerns to the development of the formal model, architecture, and software prototype of the autonomous intelligent learning system for detection of the attacks/intrusions against computer network.

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.

This book constitutes the refereed proceedings of the 33rd International Symposium on Mathematical Foundations of Computer Science, MFCS 2008, held in Torun, Poland, in August 2008. The 45 revised full papers presented together with 5 invited lectures were carefully reviewed and selected from 119 submissions. All current aspects in theoretical computer science and its mathematical foundations are addressed, ranging from algorithmic game theory, algorithms and data structures, artificial intelligence, automata and formal languages, bioinformatics, complexity, concurrency and petrinets, cryptography and security, logic and formal specifications, models of computations, parallel and distributed computing, semantics and verification.

Theoretical and Mathematical Foundations of Computer Science

Mathematical Foundations of Computer Science 2007

22nd International Symposium, MFCS'97, Bratislava, Slovakia, August 25-29, 1997, Proceedings

Second International Conference, ICTMF 2011, Singapore, May 5-6, 2011, Revised Selected Papers

Mathematical Foundations of Computer Science 2000

Second International Conference, ICQE 2020, Malibu, CA, USA, February 1-3, 2021, Proceedings

This volume constitutes the refereed proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS 2010, held in Brno, Czech Republic, in August 2010. The 56 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 149 submissions. Topics covered include algorithmic game theory, algorithmic learning theory, algorithms and data structures, automata, grammars and formal languages, bioinformatics, complexity, computational geometry, computer-assisted reasoning, concurrency theory, cryptography and security, databases and knowledge-based systems, formal specifications and program development, foundations of computing, logic in computer science, mobile computing, models of computation, networks, parallel and distributed computing, quantum computing, semantics and verification of programs, and theoretical issues in artificial intelligence.

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.

This book constitutes the refereed proceedings of the 34th International Symposium on Mathematical Foundations of Computer Science, MFCS 2009, held in Novy Smokovec, High Tatras, Slovakia, in August 2009. The 56 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from 148 submissions. All current aspects in theoretical computer science and its mathematical foundations are addressed, including algorithmic game theory, algorithmic learning theory, algorithms and data structures, automata, grammars and formal languages, bioinformatics, complexity, computational geometry, computer-assisted reasoning, concurrency theory, cryptography and security, databases and knowledge-based systems, formal specifications and program development, foundations of computing, logic in computer science, mobile computing, models of computation, networks, parallel and distributed

computing, quantum computing, semantics and verification of programs, theoretical issues in artificial intelligence. 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.

International Conferences, ICHCC 2009-ICTMF 2009, Sanya, Hainan Island, China, December 13-14, 2009. Proceedings 10th Symposium Strbske Pleso, Czechoslovakia, August 31- September 4, 1981. Proceedings

28th International Symposium, MFCS 2003, Bratislava, Slovakia, August 25-29, 2003, Proceedings

High Performance Networking, Computing, Communication Systems, and Mathematical Foundations

Mathematical Foundations of Computer Science 1977

Mathematical Foundations of Computer Science 2001

Mathematical Foundations of Computer Science 1998

"Dynamics of Information Systems" presents state-of-the-art research explaining the importance of information in the evolution of a distributed or networked system. This book presents techniques for measuring the value or significance of information within the context of a system. Each chapter reveals a unique topic or perspective from experts in this exciting area of research. This volume is intended for graduate students and researchers interested in the most recent developments in information theory and dynamical systems, as well as scientists in other fields interested in the application of these principles to their own area of study.

This book provides an authoritative introduction to the rapidly growing field of chemical reaction network theory. In particular, the book presents deep and surprising theorems that relate the graphical and algebraic structure of a reaction network to qualitative properties of the intricate system of nonlinear differential equations that the network induces. Over the course of three main parts, Feinberg provides a gradual transition from a tutorial on the basics of reaction network theory, to a survey of some of its principal theorems, and, finally, to a discussion of the theory's more technical aspects. Written with great clarity, this book will be of value to mathematicians and to mathematically-inclined biologists, chemists, physicists, and engineers who want to contribute to chemical reaction network theory or make use of its powerful results. 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.

This book constitutes the refereed proceedings of the Second International Conference on Quantitative Ethnography, ICQE 2020, held in February 2021. Due to the COVID-19 pandemic the conference has been postponed to 2021 and was held in online format. The 28 full papers were selected from 56 submissions. The contributions in this volume come from diverse fields and perspectives, and present the studies on advantages of using quantitative ethnography methods and techniques in a number of different domains and contexts, including ethnography and statistics, human interpretation and machine processing, etc.

36th International Symposium, MFCS 2011, Warsaw, Poland, August 22-26, 2011, Proceedings

13th Symposium Carlsbad, Czechoslovakia, August 29 - September 2, 1988. Proceedings

Mathematical Foundations of Computer Science 2015

Introduction to Cryptography with Mathematical Foundations and Computer Implementations

Advances in Quantitative Ethnography

Dynamics of Information Systems

Mathematical Foundations of Computer Science 2010

Mathematical Foundations of Computer Networking Addison-Wesley

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.

39th International Symposium, MFCS 2014, Budapest, Hungary, August 26–29, 2014. Proceedings, Part II

Mathematical Foundations and Applications of Graph Entropy

Mathematical Foundations of Computer Science 1988

Mathematical Foundations of Computer Science 1994

30th International Symposium, MFCS 2005, Gdansk, Poland, August 29–September 2, 2005, Proceedings

40th International Symposium, MFCS 2015, Milan, Italy, August 24–28, 2015, Proceedings, Part II

