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Networks, Communication, and Computing Vol. 2 Andras Farago 2021-08-26 Networks, communications, and computing have become ubiquitous and inseparable parts of everyday life. This book is based on a Special Issue of the Algorithms journal, and it is devoted to the exploration of the many-faceted relationship of networks, communications, and computing. The included papers explore the current state-of-the-art research in these areas, with a particular interest in the interactions among the fields.

Experimental and Efficient Algorithms Celso C. Ribeiro 2004-05-11 This book constitutes the refereed proceedings of the Third International Workshop on Experimental and Efficient Algorithms, WEA 2004, held in Angra dos Reis, Brazil in May 2004. The 40 revised full papers presented together with abstracts of two invited talks were carefully reviewed and selected from numerous submissions. The book is devoted to the areas of design, analysis, and experimental evaluation of algorithms. Among the topics covered are scheduling, heuristics, combinatorial optimization, evolutionary optimization, graph computations, labeling, robot navigation, shortest path algorithms, flow problems, searching, randomization and derandomization, string matching, graph coloring, networking, error detecting codes, timetabling, sorting, energy minimization, etc.

Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez 2018-05-15 Handbook of Approximation Algorithms and Metaheuristics, Second Edition reflects the tremendous growth in the field, over the past two decades. Through contributions from leading experts, this handbook provides a comprehensive introduction to the underlying theory and methodologies, as well as the various applications of approximation algorithms and metaheuristics. Volume 1 of this two-volume set deals primarily with methodologies and traditional applications. It includes restriction, relaxation, local ratio, approximation schemes, randomization, tabu search, evolutionary computation, local search, neural networks, and other metaheuristics. It also explores multi-objective optimization, reoptimization, sensitivity analysis, and stability. Traditional applications covered include: bin packing, multi-dimensional packing, Steiner trees, traveling salesperson, scheduling, and related problems. Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization, computational geometry and graphs problems, as well as in large-scale and emerging application areas. It includes approximation algorithms and heuristics for clustering, networks (sensor and wireless), communication, bioinformatics search, streams,

virtual communities, and more. About the Editor Teofilo F. Gonzalez is a professor emeritus of computer science at the University of California, Santa Barbara. He completed his Ph.D. in 1975 from the University of Minnesota. He taught at the University of Oklahoma, the Pennsylvania State University, and the University of Texas at Dallas, before joining the UCSB computer science faculty in 1984. He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University. He is known for his highly cited pioneering research in the hardness of approximation; for his sublinear and best possible approximation algorithm for k-tMM clustering; for introducing the open-shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas; as well as for his research on problems in the areas of job scheduling, graph algorithms, computational geometry, message communication, wire routing, etc.

Advances in Network-Based Information Systems Leonard Barolli 2018-08-27 This book presents the latest research findings and innovative theoretical and practical research methods and development techniques related to the emerging areas of information networking and their applications. Today's networks and information systems are evolving rapidly, and there are several new trends and applications, such as wireless sensor networks, ad hoc networks, peer-to-peer systems, vehicular networks, opportunistic networks, grid and cloud computing, pervasive and ubiquitous computing, multimedia systems, security, multi-agent systems, high-speed networks, and web-based systems. These networks have to deal with the increasing number of users, provide support for different services, guarantee the QoS, and optimize the network resources, and as such there are numerous research issues and challenges that need to be considered and addressed.

Introduction to Algorithms Udi Manber 1995-12

Game Theory for Networks RAHUL JAIN 2012-05-31 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Game Theory for Networks (GameNets 2011) held in Shanghai, China, April 16-18, 2011. The 45 revised full papers presented were carefully selected from numerous submissions and focus topics such as mechanism design, physical layer games, network mechanisms, stochastic and dynamic games, game-theoretic network models, cooperative games in networks, security games, spectrum sharing games, P2P and social networks and economics of network QoS.

Advanced Computational Approaches to Biomedical Engineering Punam K. Saha 2014-01-23 There has been rapid growth in biomedical engineering in recent decades, given advancements in medical imaging and physiological modelling and sensing systems, coupled with immense growth in computational and network technology, analytic approaches, visualization and virtual-reality, man-machine interaction and automation. Biomedical engineering involves applying engineering principles to the medical and biological sciences and it comprises several topics including biomedicine, medical imaging, physiological modelling and sensing, instrumentation, real-time systems, automation and control, signal processing, image reconstruction, processing and analysis, pattern recognition, and biomechanics. It holds great promise for the diagnosis and treatment of complex medical conditions, in particular, as we can now target direct clinical applications, research and development in biomedical engineering is helping us to develop innovative implants and prosthetics, create new medical imaging technologies and improve tools and techniques for the detection, prevention and treatment of diseases. The contributing authors in this edited

book present representative surveys of advances in their respective fields, focusing in particular on techniques for the analysis of complex biomedical data. The book will be a useful reference for graduate students, researchers and industrial practitioners in computer science, biomedical engineering, and computational and molecular biology.

Algorithms - ESA 2009 Amos Fiat 2009-09-19 This volume contains the papers presented at ESA 2009: The 17th Annual - ropean Symposium on Algorithms, September 7–9, 2009. ESA has been held annually since 1993, and seeks to cover both theoretical and engineering aspects of algorithms. The authors were asked to classify their paper under one or more categories as described in Fig. 1. Since 2001, ESA has been the core of the larger ALGO conference, which typically includes several satellite conferences. ALGO 2009 was held at the IT University of Copenhagen, Denmark. The ?ve members of the ALGO 2009 - ganizing Committee were chaired by Thore Husfeldt. The ESA submission deadline was April 12, Easter Sunday. This was clearly an error and we o?er profuse apologies for this mistake. Albeit no excuse, the hard constraints we faced were (a) ICALP noti?cation, April 6, and (b) ESA in Copenhagen, September 7. Between these two endpoints we needed to design a schedule that allowed modifying ICALP rejections for resubmission (1 week), Program Committee deliberations (7 weeks), preparing ?nal versions (4 weeks), and, to prepare, publish, and transport the proceedings (9 weeks). ESA 2009 had 272 submissions of which 14 were withdrawn overtime. Of the remaining 222 submissions to Track A (Design and Analysis), 56 were accepted. Of the remaining 36 submissions to Track B (Engineering and Applications), 10 were accepted. This gives an acceptance rate of slightly under 25%.

Network Flow Algorithms David P. Williamson 2019-09-05 Network flow theory has been used across a number of disciplines, including theoretical computer science, operations research, and discrete math, to model not only problems in the transportation of goods and information, but also a wide range of applications from image segmentation problems in computer vision to deciding when a baseball team has been eliminated from contention. This graduate text and reference presents a succinct, unified view of a wide variety of efficient combinatorial algorithms for network flow problems, including many results not found in other books. It covers maximum flows, minimum-cost flows, generalized flows, multicommodity flows, and global minimum cuts and also presents recent work on computing electrical flows along with recent applications of these flows to classical problems in network flow theory.

Enabling Technologies and Architectures for Next-Generation Networking Capabilities Elkhodr, Mahmoud 2018-10-19 With the rise of mobile and wireless technologies, more sustainable networks are necessary to support communication. These next-generation networks can now be utilized to extend the growing era of the Internet of Things. *Enabling Technologies and Architectures for Next-Generation Networking Capabilities* is an essential reference source that explores the latest research and trends in large-scale 5G technologies deployment, software-defined networking, and other emerging network technologies. Featuring research on topics such as data management, heterogeneous networks, and spectrum sensing, this book is ideally designed for computer engineers, technology developers, network administrators and researchers, professionals, and graduate-level students seeking coverage on current and future network technologies.

Algorithms and Theory of Computation Handbook, Second Edition, Volume 1 Mikhail J. Atallah 2009-11-20 *Algorithms and Theory of Computation Handbook, Second Edition:*

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General Concepts and Techniques provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. Along with updating and revising many of the existing chapters, this second edition contains four new chapters that cover external memory and parameterized algorithms as well as computational number theory and algorithmic coding theory. This best-selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics.

Efficient Approximation and Online Algorithms Evripidis Bampis 2006-01-24 This book provides a good opportunity for computer science practitioners and researchers to get in sync with current state-of-the-art and future trends in the field of combinatorial optimization and online algorithms. Recent advances in this area are presented focusing on the design of efficient approximation and on-line algorithms. One central idea in the book is to use a linear program relaxation of the problem, randomization and rounding techniques.

Algorithms

NETWORKING 2002: Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications

Enrico Gregori 2007-06-30 This book constitutes the refereed proceedings of the Second IFIP-TC6 Networking Conference, Networking 2002. Networking 2002 was sponsored by the IFIP Working Groups 6.2, 6.3, and 6.8. For this reason the conference was structured into three tracks: i) Networking Technologies, Services, and Protocols, ii) Performance of Computer and Communication Networks, and iii) Mobile and Wireless Communications. This year the conference received 314 submissions coming from 42 countries from all five continents Africa (4), Asia (84), America (63), Europe (158), and Oceania (5). This represents a 50% increase in submissions over the first conference, thus indicating that Networking is becoming a reference conference for worldwide researchers in the networking community. With so many papers to choose from, the job of the Technical Program Committee, to provide a conference program of the highest technical excellence, was both challenging and time consuming. From the 314 submissions, we finally selected 82 full papers for presentation during the conference technical sessions. To give young researchers and researchers from emerging countries the opportunity to present their work and to receive useful feedback from participants, we decided to include two poster sessions during the technical program. Thirty-one short papers were selected for presentation during the poster sessions. The conference technical program was split into three days, and included, in addition to the 82 refereed contributions, 5 invited papers from top-level researchers in the networking community.

Socio-Technical Networks Fei Hu 2010-11-17 While there are sporadic journal articles on socio-technical networks, there's long been a need for an integrated resource that addresses concrete socio-technical network (STN) design issues from algorithmic and engineering perspectives. Filling this need, *Socio-Technical Networks: Science and Engineering Design* provides a complete introduction to the fundamentals of one of the hottest research areas across the social sciences, networking, and computer science—including its definition, historical background, and models. Covering basic STN architecture from a

physical/technological perspective, the book considers the system design process in a typical STN, including inputs, processes/actions, and outputs/products. It covers current applications, including transportation networks, energy systems, tele-healthcare, financial networks, and the World Wide Web. A group of STN expert contributors addresses privacy and security topics in the interdependent context of critical infrastructure, which include risk models, trust models, and privacy preserving schemes. Covers the physical and technological designs in a typical STN Considers STN applications in popular fields, such as healthcare and the virtual community Details a method for mapping and measuring complexity, uncertainty, and interactions among STN components The book examines the most important STN models, including graph theory, inferring agent dynamics, decision theory, and information mining. It also explains structural studies, behavioral studies, and agent/actor system studies and policy studies in different STN contexts. Complete with in-depth case studies, this book supplies the practical insight needed to address contemporary STN design issues.

Twenty Lectures on Algorithmic Game Theory Tim Roughgarden 2016-08-30 Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

Networks, Crowds, and Markets David Easley 2010-07-19 Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

Encyclopedia of Bioinformatics and Computational Biology 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology: ABC of Bioinformatics combines elements of computer science, information technology, mathematics, statistics and biotechnology, providing the methodology and in silico solutions to mine biological data and processes. The book covers Theory, Topics and Applications, with a special focus on Integrative -omics and Systems Biology. The theoretical, methodological underpinnings of BCB, including phylogeny are covered, as are more current areas of focus, such as translational bioinformatics, cheminformatics, and environmental informatics. Finally, Applications provide guidance for commonly asked questions. This major reference work spans basic and cutting-edge methodologies authored by leaders in the field, providing an invaluable resource for students, scientists, professionals in research institutes, and a broad swath of researchers in

biotechnology and the biomedical and pharmaceutical industries. Brings together information from computer science, information technology, mathematics, statistics and biotechnology
Written and reviewed by leading experts in the field, providing a unique and authoritative resource
Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications
Includes interactive images, multimedia tools and crosslinking to further resources and databases

Combinatorial Optimization Bernhard Korte 2018-03-13 This comprehensive textbook on combinatorial optimization places special emphasis on theoretical results and algorithms with provably good performance, in contrast to heuristics. It is based on numerous courses on combinatorial optimization and specialized topics, mostly at graduate level. This book reviews the fundamentals, covers the classical topics (paths, flows, matching, matroids, NP-completeness, approximation algorithms) in detail, and proceeds to advanced and recent topics, some of which have not appeared in a textbook before. Throughout, it contains complete but concise proofs, and also provides numerous exercises and references. This sixth edition has again been updated, revised, and significantly extended. Among other additions, there are new sections on shallow-light trees, submodular function maximization, smoothed analysis of the knapsack problem, the $(\ln 4 + \epsilon)$ -approximation for Steiner trees, and the VPN theorem. Thus, this book continues to represent the state of the art of combinatorial optimization.

Proceedings of the ...ACM Symposium on Theory of Computing 2007

The Design of Approximation Algorithms David P. Williamson 2011-04-26 Discrete optimization problems are everywhere, from traditional operations research planning (scheduling, facility location and network design); to computer science databases; to advertising issues in viral marketing. Yet most such problems are NP-hard; unless $P = NP$, there are no efficient algorithms to find optimal solutions. This book shows how to design approximation algorithms: efficient algorithms that find provably near-optimal solutions. The book is organized around central algorithmic techniques for designing approximation algorithms, including greedy and local search algorithms, dynamic programming, linear and semidefinite programming, and randomization. Each chapter in the first section is devoted to a single algorithmic technique applied to several different problems, with more sophisticated treatment in the second section. The book also covers methods for proving that optimization problems are hard to approximate. Designed as a textbook for graduate-level algorithm courses, it will also serve as a reference for researchers interested in the heuristic solution of discrete optimization problems.

Combinatorial Optimization and Applications Boting Yang 2008-08-20 This book constitutes the refereed proceedings of the Second International Conference on Combinatorial Optimization and Applications, COCOA 2008, held in St. John's, Canada, in August 2008. The 44 revised full papers were carefully reviewed and selected from 84 submissions. The papers feature original research in the areas of combinatorial optimization -- both theoretical issues and applications motivated by real-world problems thus showing convincingly the usefulness and efficiency of the algorithms discussed in a practical setting.

Social Informatics Leonard Bolc 2010-10-19 This book constitutes the refereed proceedings of the Second International Conference on Social Informatics, SocInfo 2010, held in Laxenburg,

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Austria, in October 2010. The 17 revised full papers presented were carefully reviewed and selected from numerous submissions and feature both the theoretical social network analysis and its practical applications for social recommendation as well as social aspects of virtual collaboration, ranging from social studies of computer supported collaborative work, to the study of enhancements of the Wiki technology. Further topics are research on Webmining, opinion mining, and sentiment analysis; privacy and trust; computational social choice; and virtual teamwork.

Eighth IEEE International Symposium on Computers and Communication 2003

Structural Information and Communication Complexity Guy Even 2012-06-25 This book constitutes the refereed proceedings of the 19th International Colloquium on Structural Information and Communication Complexity, SIROCCO 2012, held in Reykjavik, Iceland for 3 days starting June 30, 2012. The 28 revised full papers presented were carefully reviewed and selected from 54 submissions. SIROCCO is devoted to the study of communication and knowledge in distributed systems. Special emphasis is given to innovative approaches and fundamental understanding, in addition to efforts to optimize current designs. The typical areas include distributed computing, communication networks, game theory, parallel computing, social networks, mobile computing (including autonomous robots), peer to peer systems, communication complexity, fault tolerant graph theories, and randomized/probabilistic issues in networks.

Python Algorithms Magnus Lie Hetland 2014-09-17 Python Algorithms, Second Edition explains the Python approach to algorithm analysis and design. Written by Magnus Lie Hetland, author of Beginning Python, this book is sharply focused on classical algorithms, but it also gives a solid understanding of fundamental algorithmic problem-solving techniques. The book deals with some of the most important and challenging areas of programming and computer science in a highly readable manner. It covers both algorithmic theory and programming practice, demonstrating how theory is reflected in real Python programs. Well-known algorithms and data structures that are built into the Python language are explained, and the user is shown how to implement and evaluate others.

Equitable Resource Allocation Hanan Luss 2012-09-11 A unique book that specifically addresses equitable resource allocation problems with applications in communication networks, manufacturing, emergency services, and more Resource allocation problems focus on assigning limited resources in an economically beneficial way among competing activities. Solutions to such problems affect people and everyday activities with significant impact on the private and public sectors and on society at large. Using diverse application areas as examples, Equitable Resource Allocation: Models, Algorithms, and Applications provides readers with great insight into a topic that is not widely known in the field. Starting with an overview of the topics covered, the book presents a large variety of resource allocation models with special mathematical structures and provides elegant, efficient algorithms that compute optimal solutions to these models. Authored by one of the leading researchers in the field, Equitable Resource Allocation: Is the only book that provides a comprehensive exposition of equitable resource allocation problems Presents a collection of resource allocation models with applications in communication networks, transportation, content distribution, manufacturing, emergency services, and more Exhibits practical algorithms for solving a variety of resource allocation models Uses real-world applications and examples to explain important concepts

Includes end-of-chapter exercises Bringing together much of the equitable resource allocation research from the past thirty years, this book is a valuable reference for anyone interested in solving diverse optimization problems.

Iterative Methods in Combinatorial Optimization Lap Chi Lau 2011-04-18 With the advent of approximation algorithms for NP-hard combinatorial optimization problems, several techniques from exact optimization such as the primal-dual method have proven their staying power and versatility. This book describes a simple and powerful method that is iterative in essence and similarly useful in a variety of settings for exact and approximate optimization. The authors highlight the commonality and uses of this method to prove a variety of classical polyhedral results on matchings, trees, matroids and flows. The presentation style is elementary enough to be accessible to anyone with exposure to basic linear algebra and graph theory, making the book suitable for introductory courses in combinatorial optimization at the upper undergraduate and beginning graduate levels. Discussions of advanced applications illustrate their potential for future application in research in approximation algorithms.

Algorithmic Game Theory Martin Hoefer 2015-09-24 This book constitutes the refereed proceedings of the 8th International Symposium on Algorithmic Game Theory, SAGT 2015, held in Saarbrücken, Germany, in September 2015. The 22 full papers presented together with one extended abstract and 6 brief announcements were carefully reviewed and selected from 63 submissions. They cover various important aspects of algorithmic game theory, such as matching under preferences; cost sharing; mechanism design and social choice; auctions; networking; routing and fairness; and equilibrium computation.

Social Media Mining Reza Zafarani 2014-04-28 Integrates social media, social network analysis, and data mining to provide an understanding of the potentials of social media mining.

Algorithm Design Jon Kleinberg 2012-02-28 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science. August 6, 2009 Author, Jon Kleinberg, was recently cited in the New York Times for his statistical analysis research in the Internet age.

PODC '07 2007

Handbook of Parallel Computing Sanguthevar Rajasekaran 2007-12-20 The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a

Internet and Network Economics Stefano Leonardi 2009-12-08 This book constitutes the refereed proceedings of the 5th International Workshop on Internet and Network Economics, WINE 2009, held in Rome, Italy, in December 2009. The 34 regular and 29 short revised full

papers presented together with 3 invited talks were carefully reviewed and selected from 142 submissions. The papers address various topics in theoretical computer science, networking and security, economics, mathematics, sociology, and management sciences devoted to the analysis of problems arising in the internet and the worldwide Web, such as auction algorithms, computational advertising, general and majority equilibrium, coalitions, collective action, economics aspects of security and privacy in distributed and network computing, algorithmic design and game theory, information economics, network games, price dynamics, and social networks.

Combinatorial and Algorithmic Aspects of Networking Alejandro López-Ortiz 2005-07-14

This book constitutes the refereed proceedings of the first workshop on Combinatorial and Algorithmic Aspects of Networking, held in Banff, Alberta, Canada in August 2004. The 12 revised full papers together with two invited papers presented were carefully reviewed and selected for inclusion in the book. The topics covered range from the web graph to game theory to string matching, all in the context of large-scale networks. This volume contains also 5 survey articles to round out the presentation and give a comprehensive introduction to the topic.

Green Services Engineering, Optimization, and Modeling in the Technological Age Liu, Xiaodong 2015-07-07 Concerns surrounding environmental sustainability have led to an increase of interest in environmentally-friendly systems. In the ICT realm, attention has been largely paid to green aspects of hardware; however, it is equally necessary to address this issue from the software perspective. *Green Services Engineering, Optimization, and Modeling in the Technological Age* is a valuable reference source of the latest scholarly research on the implementation of green processes into software systems, contributing novel principles, methodologies, and tools to improve software development. Featuring comprehensive and timely coverage on various areas in service strategy and modeling, engineering, and sustainability, this publication is a pivotal reference source for researchers, practitioners, advanced-level students, and end users in the software development realm.

Algorithms and Theory of Computation Handbook - 2 Volume Set Mikhail J. Atallah 2022-05-30 *Algorithms and Theory of Computation Handbook, Second Edition* in a two volume set, provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. New to the Second Edition: Along with updating and revising many of the existing chapters, this second edition contains more than 20 new chapters. This edition now covers external memory, parameterized, self-stabilizing, and pricing algorithms as well as the theories of algorithmic coding, privacy and anonymity, databases, computational games, and communication networks. It also discusses computational topology, computational number theory, natural language processing, and grid computing and explores applications in intensity-modulated radiation therapy, voting, DNA research, systems biology, and financial derivatives. This best-selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics

Computing and Combinatorics Ding-Zhu Du 2013-05-17 This book constitutes the refereed

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proceedings of the 19th International Conference on Computing and Combinatorics, COCOON 2013, held in Hangzhou, China, in June 2013. The 56 revised full papers presented were carefully reviewed and selected from 120 submissions. There was a co-organized workshop on discrete algorithms of which 8 short papers were accepted and a workshop on computational social networks where 12 papers out of 25 submissions were accepted.

Theoretical Aspects of Distributed Computing in Sensor Networks Sotiris Nikolettseas

2011-01-15 Wireless ad hoc sensor networks has recently become a very active research subject. Achieving efficient, fault-tolerant realizations of very large, highly dynamic, complex, unconventional networks is a real challenge for abstract modelling, algorithmic design and analysis, but a solid foundational and theoretical background seems to be lacking. This book presents high-quality contributions by leading experts worldwide on the key algorithmic and complexity-theoretic aspects of wireless sensor networks. The intended audience includes researchers and graduate students working on sensor networks, and the broader areas of wireless networking and distributed computing, as well as practitioners in the relevant application areas. The book can also serve as a text for advanced courses and seminars.

Proceedings of the Twelfth Annual ACM-SIAM Symposium on Discrete Algorithms SIAM Activity

Group on Discrete Mathematics 2001-01-01 Contains 130 papers, which were selected based on originality, technical contribution, and relevance. Although the papers were not formally refereed, every attempt was made to verify the main claims. It is expected that most will appear in more complete form in scientific journals. The proceedings also includes the paper presented by invited plenary speaker Ronald Graham, as well as a portion of the papers presented by invited plenary speakers Udi Manber and Christos Papadimitriou.