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Robust Communication Networks: Interconnection and Survivability

DIMACS Workshop
Robust Communication Networks:
Interconnection and Survivability
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Nathaniel Dean
D. Frank Hsu
R. Ravi
Editors



American Mathematical Society

Robust Communication Networks Interconnection And Survivability

Melvin F. Janowitz



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Robust Communication Networks: Interconnection and Survivability Nathaniel Dean, Derbiau Frank Hsu, Ramamoorthi Ravi, 2000 This volume contains the proceedings of a DIMACS Workshop on Robust Communication Networks held as part of the Special Year on Networks Theoreticians and practitioners presented papers on the roles of architectural interconnection and survivability in the design construction operation and application of robust communication networks Due to the advent of VSLI and fiber optics technologies it has become possible and feasible to design and construct large scale high performance high speed wireline and wireless communication networks that are also robust This opens many challenging issues and problems for both the theory community and practitioners Of particular interest is how these technological advances lead the way to new and challenging mathematical frontiers and set the direction for future research on and implementation of robust communication networks The nine papers chosen for this volume represent the state of the art from a variety of perspectives

Robust Communication Networks DIMACS. Staff, 2000 This volume contains the proceedings of a DIMACS Workshop on Robust Communication Networks held as part of the Special Year on Networks Theoreticians and practitioners presented papers on the roles of architectural interconnection and survivability in the design construction operation and application of robust communication networks Due to the advent of VSLI and fiber optics technologies it has become possible and feasible to design and construct large scale high performance high speed wireline and wireless communication networks that are also robust This opens many challenging issues

Algorithms - ESA 2008 Kurt Mehlhorn, 2008-09-20 This book constitutes the refereed proceedings of the 16th Annual European Symposium on Algorithms ESA 2008 held in Karlsruhe Germany in September 2008 in the context of the combined conference ALGO 2008 The 67 revised full papers presented together with 2 invited lectures were carefully reviewed and selected 51 papers out of 147 submissions for the design and analysis track and 16 out of 53 submissions in the engineering and applications track The papers address all current subjects in algorithmics reaching from design and analysis issues of algorithms over to real world applications and engineering of algorithms in various fields Special focus is given to mathematical programming and operations research including combinatorial optimization integer programming polyhedral combinatorics and network optimization

Integer Programming and Combinatorial Optimization Michael Jünger, Volker Kaibel, 2005-05-18 Since its start in 1990 the IPCO conference series held under the auspices of the Mathematical Programming Society has become an important forum for the presentation of recent results in Integer Programming and Combinatorial Optimization This volume compiles the papers presented at IPCO XI the eleventh conference in this series held June 8 10 2005 at the Technische Universität Berlin The high interest in this conference series is evident in the large number of submissions For IPCO XI 119 extended abstracts of up to 10 pages were submitted During its meeting on January 29 30 2005 the Program Committee carefully selected 34 contributions for presentation in non parallel sessions at the conference The final choices were not easy at all since due to the limited number of

time slots many very good papers could not be accepted During the selection process the contributions were refereed according to the standards of refereed conferences As a result of this procedure you have in your hands a volume that contains papers describing high quality research efforts The page limit for contributions to this proceedings volume was set to 15 You may find full versions of the papers in scientific journals in the near future We thank all the authors who submitted papers Furthermore the Program Committee is indebted to the many reviewers who with their specific expertise helped a lot in making the decisions

Advances in Network Information Theory Piyush Gupta, Gerhard Kramer, and Adriaan J. van Wijngaarden, Information theory has recently attracted renewed attention because of key developments spawning challenging research problems The book is suitable for graduate students and research mathematicians interested in communications and network information theory Jacket

Constraint Programming and Large Scale Discrete Optimization Eugene C. Freuder, 2001 The proceedings of the September 1998 workshop deals with the application of constraint programming to problems of combinatorial optimization and industrial practice covering general techniques scheduling problems and software methodology The eight papers discuss using global constraints for local search multithreaded constraint programming employee scheduling mission scheduling on orbiting satellites sports scheduling and the main results of the CHIC 2 project on large scale constraint optimization No index c Book News Inc *Algorithms - ESA 2008* Dan Halperin, 2008-09-18 and relevance to the symposium The Program Committees of both tracks met in Karlsruhe on May 24-25 2008 The design and analysis track selected 51 papers out of 147 submissions The engineering and applications track selected 16 out of 53 submissions

Advances in Network Information Theory Piyush Gupta, Gerhard Kramer, Adriaan J. Van Wijngaarden, 2004 Information theory has recently attracted renewed attention because of key developments spawning challenging research problems The book is suitable for graduate students and research mathematicians interested in communications and network information theory Jacket

Building Scalable Network Services Cheng Jin, Sugih Jamin, Danny Raz, Yuval Shavitt, 2012-12-06 Building Scalable Network Services Theory and Practice is on building scalable network services on the Internet or in a network service provider's network The focus is on network services that are provided through the use of a set of servers The authors present a tiered scalable network service model and evaluate various services within this architecture The service model simplifies design tasks by implementing only the most basic functionalities at lower tiers where the need for scalability dominates functionality The book includes a number of theoretical results that are practical and applicable to real networks such as building network wide measurement monitoring services and strategies for building better P2P networks Various issues in scalable system design and placement algorithms for service nodes are discussed Using existing network services as well as potentially new but useful services as examples the authors formalize the problem of placing service nodes and provide practical solutions for them

Algebraic Coding Theory and Information Theory Alexei Ashikhmin, Alexander Barg, 2005 In these papers associated with the workshop of

December 2003 contributors describe their work in fountain codes for lossless data compression an application of coding theory to universal lossless source coding performance bounds expander graphs and codes multilevel expander codes low parity check lattices sparse factor graph representations of Reed Solomon and related codes Interpolation multiplicity assignment algorithms for algebraic soft decision decoding of Reed Solomon codes the capacity of two dimensional weight constrained memories networks of two way channels and a new approach to the design of digital communication systems Annotation 2005 Book News Inc Portland OR booknews com

Bioconsensus Melvin F. Janowitz, This volume is based on two DIMACS working group meetings on Bioconsensus It provides a valuable introduction and reference to the various aspects of this rapidly developing field The meetings brought together mathematical and biological scientists to discuss the uses in the biological sciences of methods of consensus and social choice These two lively meetings contributed much toward establishing the new field of bioconsensus Yet this book is much more than just a report of two meetings It includes some historical background as well as a substantial introduction to the axiomatic foundations of the field of bioconsensus and some practical applications of consensus methods to real data Also included are contributed papers from experts who were not at the meetings The book is intended for mathematical biologists evolutionary biologists and computer scientists

Set Theory Simon Thomas, 2002 This volume presents the proceedings from the Mid Atlantic Mathematical Logic Seminar MAMLS conference held in honor of Andras Hajnal at the DIMACS Center Rutgers University New Brunswick NJ Articles include both surveys and high level research papers written by internationally recognized experts in the field of set theory Many of the current active areas of set theory are represented in this volume It includes research papers on combinatorial set theory set theoretic topology descriptive set theory and set theoretic algebra There are valuable surveys on combinatorial set theory fragments of the proper forcing axiom and the reflection properties of stationary sets The book also includes an exposition of the ergodic theory of lattices in higher rank semisimple Lie groups essential reading for anyone who wishes to understand much of the recent work on countable Borel equivalence relations

BioMath in the Schools Margaret B. Cozzens, Fred S. Roberts, 2011 Even though contemporary biology and mathematics are inextricably linked high school biology and mathematics courses have traditionally been taught in isolation But this is beginning to change This volume presents papers related to the integration of biology and mathematics in high school classes The first part of the book provides the rationale for integrating mathematics and biology in high school courses as well as opportunities for doing so The second part explores the development and integration of curricular materials and includes responses from teachers Papers in the third part of the book explore the interconnections between biology and mathematics in light of new technologies in biology The last paper in the book discusses what works and what doesn't and presents positive responses from students to the integration of mathematics and biology in their classes

Discrete Mathematical Problems with Medical Applications Dingzhu Du, Panos M. Pardalos, Jie Wang, 2000-01-01 This volume presents selected papers from a three

day workshop held during the DIMACS special years on Mathematical Support for Molecular Biology Participants from the world over attended giving the workshop an important international component The study of discrete mathematics and optimization with medical applications is emerging as an important new research area Significant applications have been found in medical research for example in radiosurgical treatment planning virtual endoscopy and more This volume presents a substantive cross section of active research topics ranging from medical imaging to human anatomy modeling from gamma knife treatment planning to radiation therapy and from epileptic seizures to DNA screening This book is an up to date resource reflecting current research directions

Geometric and Algorithmic Aspects of Computer-Aided Design and Manufacturing Ravi Janardan, Michiel Smid, Debasish Dutta, 2005 Computer Aided Design and Manufacturing CAD CAM is concerned with all aspects of the process of designing prototyping manufacturing inspecting and maintaining complex geometric objects under computer control As such there is a natural synergy between this field and Computational Geometry CG which involves the design analysis implementation and testing of efficient algorithms and data representation techniques for geometric entities such as points polygons polyhedra curves and surfaces The DIMACS Center Piscataway NJ sponsored a workshop to further promote the interaction between these two fields Attendees from academia research laboratories and industry took part in the invited talks contributed presentations and informal discussions This volume is an outgrowth of that meeting

Modeling Paradigms and Analysis of Disease Transmission Models Abba B. Gumel, Suzanne Lenhart, 2010 This volume stems from two DIMACS activities the U S Africa Advanced Study Institute and the DIMACS Workshop both on Mathematical Modeling of Infectious Diseases in Africa held in South Africa in the summer of 2007 It contains both tutorial papers and research papers Students and researchers should find the papers on modeling and analyzing certain diseases currently affecting Africa very informative In particular they can learn basic principles of disease modeling and stability from the tutorial papers where continuous and discrete time models optimal control and stochastic features are introduced

The Shortest Path Problem Camil Demetrescu, Andrew V. Goldberg, David S. Johnson, Codes and Association Schemes Alexander Barg, 2001 This volume presents papers related to the DIMACS workshop Codes and Association Schemes The articles are devoted to the following topics applications of association schemes and of the polynomial method to properties of codes structural results for codes structural results for association schemes and properties of orthogonal polynomials and their applications in combinatorics Papers on coding theory are related to classical topics such as perfect codes bounds on codes codes and combinatorial arrays weight enumerators and spherical designs Papers on orthogonal polynomials provide new results on zeros and symptotic properties of standard families of polynomials encountered in coding theory The theme of association schemes is represented by new classification results and new classes of schemes related to posets This volume collects up to date applications of the theory of association schemes to coding and presents new properties of both polynomial and general association schemes It offers a solid representation of results in problems in areas of current interest

DNA Based Computers V Erik Winfree, 2000 This proceedings volume presents the talks from the Fifth Annual Meeting on DNA Based Computers held at MIT The conference brought together researchers and theorists from many disciplines who shared research results in biomolecular computation Two styles of DNA computing were explored at the conference 1 DNA computing based on combinatorial search where randomly created DNA strands are used to encode potential solutions to a problem and constraints induced by the problem are used to identify DNA strands that are solution witnesses and 2 DNA computing based on finite state machines where the state of a computation is encoded in DNA which controls the biochemical steps that advance the DNA based machine from state to state Featured articles include discussions on the formula satisfiability problem self assembly and nanomachines simulation and design of molecular systems and new theoretical approaches

Graphs, Morphisms, and Statistical Physics Jaroslav Nešetřil, Peter Winkler, The intersection of combinatorics and statistical physics has experienced great activity in recent years This flurry of activity has been fertilized by an exchange not only of techniques but also of objectives Computer scientists interested in approximation algorithms have helped statistical physicists and discrete mathematicians overcome language problems They have found a wealth of common ground in probabilistic combinatorics Close connections between percolation and random graphs graph morphisms and hard constraint models and slow mixing and phase transition have led to new results and perspectives These connections can help in understanding typical behavior of combinatorial phenomena such as graph coloring and homomorphisms Inspired by issues and intriguing new questions surrounding the interplay of combinatorics and statistical physics a DIMACS DIMATIA workshop was held at Rutgers University These proceedings are the outgrowth of that meeting This volume is intended for graduate students and research mathematicians interested in probabilistic graph theory and its applications

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