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Volume 53

## Robust Communication Networks: Interconnection and Survivability

DIMACS Workshop  
Robust Communication Networks:  
Interconnection and Survivability  
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DIMACS Center

Nathaniel Dean  
D. Frank Hsu  
R. Ravi  
Editors



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American Mathematical Society

# Robust Communication Networks Interconnection And Survivability

**Erik Winfree**



## **Robust Communication Networks Interconnection And Survivability:**

**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 *Constraint Programming and Large Scale Discrete Optimization* Eugene C. Freuder, Richard John Wallace, 2001-01-01 Constraint programming has become an important general approach for solving hard combinatorial problems that occur in a number of application domains such as scheduling and configuration This volume contains selected papers from the workshop on Constraint Programming and Large Scale Discrete Optimization held at DIMACS It gives a sense of state of the art research in this field touching on many of the important issues that are emerging and giving an idea of the major current trends Topics include new strategies for local search multithreaded constraint programming specialized constraints that enhance consistency processing fuzzy representations hybrid approaches involving both constraint

programming and integer programming and applications to scheduling problems in domains such as sports scheduling and satellite scheduling     **Integer Programming and Combinatorial Optimization** Michael Jünger, Volker Kaibel, 2005-06

This book constitutes the refereed proceedings of the 11th International Conference on Integer Programming and Combinatorial Optimization IPCO 2005 held in Berlin Germany in June 2005 The 34 revised full papers presented were carefully reviewed and selected from 119 submissions Among the topics addressed are mixed integer programming graph theory graph algorithms approximation linear programming approximability packing scheduling computational geometry randomization network algorithms sequencing TSP and travelling salesman problem     **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     **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     *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     **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     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

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