

Series on  
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Volume 3

# **COMBINATORIAL GROUP TESTING AND ITS APPLICATIONS**

**Ding-Zhu Du  
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**World Scientific**

# Combinatorial Group Testing And Applications

**Lingjun Ying**



## **Combinatorial Group Testing And Applications:**

Combinatorial Group Testing and Its Applications Dingzhu Du, Frank Hwang, 2000 Group testing has been used in medical chemical and electrical testing coding drug screening pollution control multiaccess channel management and recently in data verification clone library screening and AIDS testing The mathematical model can be either combinatorial or probabilistic This book summarizes all important results under the combinatorial model and demonstrates their applications in real problems Some other search problems including the famous counterfeit coins problem are also studied in depth There are two reasons for publishing a second edition of this book The first is the usual need to update the text after six years and correct errors The second and more important reason is to accommodate the recent sudden growth of interest in applying the idea of group testing to clone library screening This development is much more than just a new application since the new application brings with it new objectives which require a new twist of theory It also embraces the growing importance of two topics nonadaptive algorithms and error tolerance Two new chapters one on clone library screening and the other on error tolerance have been added Also included is a new chapter on counterfeit coins the most famous search problem historically which recently drew on an unexpected connection to some deep mathematical theory to yield new results Finally the chapters have been recognized into parts to provide focuses and perspectives

*Combinatorial Group Testing and Its Applications* Dingzhu Du, 1993 Du computer science City U of Hong Kong and Hwang applied mathematics National Chiao Tung U Taiwan assemble the theories and applications of a technique for testing blood on a large scale economically They say it was developed about 50 years ago but went dormant when the immediate need passed and think it might be useful again now what with the AIDS epidemic and all They mention no date for the first edition not only have they updated results and corrected errors here they have also incorporated the recent extensive application of non adaptive group testing to the clone library screening problem Annotation copyrighted by Book News Inc Portland OR

**Theory and Applications of Models of Computation** T.V. Gopal, Junzo Watada, 2019-04-10 This book constitutes the refereed proceedings of the 15th Annual Conference on Theory and Applications of Models of Computation TAMC 2019 held in Kitakyushu Japan in April 2019 The 43 revised full papers were carefully reviewed and selected from 60 submissions The main themes of the selected papers are computability computer science logic complexity algorithms models of computation and systems theory

**Combinatorial Group Testing with Error-tolerance Property** Xiaoyu Wu, 2004 *New Advances in Designs, Codes and Cryptography* Charles J. Colbourn, Jeffrey H. Dinitz, 2024-04-08 This volume records and disseminates selected papers from the Stinson66 conference including surveys prospectives and papers presenting original and current research It contains four accessible surveys of topics in combinatorial designs and related topics ranging from a tutorial survey of connections to classical group theory to surveys of hot topics in current research It also contains a prospective paper identifying topics for future research efforts co authored by one of the elder statesmen of the field Alex Rosa Finally the

research papers examine topics ranging from pure mathematics to applied work in computing networking communications and cryptography For students and newcomers to these topics the volume provides accessible survey material that does not have onerous prerequisites The breadth of topics reflects the vibrancy of the field in a way that can be appreciated by all researchers The papers present important advances on theory and applications which also benefit advanced researchers

**Automata, Languages and Programming** Jos C.M. Baeten,Jan Karel Lenstra,Joachim Parrow,Gerhard J.

Woeginger,2003-01-01 The refereed proceedings of the 30th International Colloquium on Automata Languages and Programming ICALP 2003 held in Eindhoven The Netherlands in June July 2003 The 84 revised full papers presented together with six invited papers were carefully reviewed and selected from 212 submissions The papers are organized in topical sections on algorithms process algebra approximation algorithms languages and programming complexity data structures graph algorithms automata optimization and games graphs and bisimulation online problems verification the Internet temporal logic and model checking graph problems logic and lambda calculus data structures and algorithms types and categories probabilistic systems sampling and randomness scheduling and geometric problems Pooling Designs and Nonadaptive Group Testing Dingzhu Du, Frank Hwang,2006 Pooling designs have been widely used in various aspects of DNA sequencing In biological applications the well studied mathematical problem called group testing shifts its focus to nonadaptive algorithms while the focus of traditional group testing is on sequential algorithms Biological applications also bring forth new models not previously considered such as the error tolerant model the complex model and the inhibitor model This book is the first attempt to collect all the significant research on pooling designs in one convenient place The coverage includes many real biological applications such as clone library screening contig sequencing exon boundary finding and protein protein interaction detecting and introduces the mathematics behind it *Algorithms and Data Structures* Frank Dehne,Alejandro López-Ortiz,Jörg-Rüdiger Sack,2005-08-29 The papers in this volume were presented at the 9th Workshop on Algorithms and Data Structures WADS 2005 The workshop took place during August 15 17 2005 at the University of Waterloo Waterloo Canada *Proceedings of the Sixth Annual ACM-SIAM Symposium on Discrete Algorithms* ,1995-01-01 The proceedings of the January 1995 symposium sponsored by the ACM Special Interest Group on Algorithms and Computation Theory and the SIAM Activity Group on Discrete Mathematics comprise 70 papers Among the topics on line approximate list indexing with applications finding subsets maximizing minimum structures register allocation in structured programs and splay trees for data compression No index Annotation copyright by Book News Inc Portland OR *Pooling Design Algorithms Based on Group Testing Theory* David J. MacCallum,2007 *International Journal of Bioinformatics Research and Applications* ,2005 Journal of Combinatorics, Information & System Sciences ,1993 *Computing and Combinatorics* ,2005 Proceedings of the Thirtieth Annual ACM Symposium on Theory of Computing ,1998

**Proceedings of the Twenty-first Annual ACM Symposium on Principles of Distributed Computing** ,2002

*Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing* ,2005      **Proceedings of the 28th Annual International Computer Software and Applications Conference** ,2004 COMPSAC 2004 explores a broad and diverse range of both topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues Its second volume of Workshop papers cover software cybernetics quality assurance and testing of Web based applications and biological data management      Proceedings ,1996      **Recent Advances in Experimental Designs and Related Topics** Stan Altan,Jagbir Singh,2001 Researchers in all disciplines are becoming increasingly aware of the importance of experimental designs and statistical methods in their investigations Use of a sound experimental design is crucial to ensure reliability of data and subsequent findings from a study That is why a design for collecting data is at the core of Statistics Professor Damaraju Raghavarao has made fundamental contributions to both the theory and application of the Design of Experiments This book is dedicated to him and consists of twelve papers on recent developments on different topics in the area of Design of Experiments by distinguished researchers      Ars Combinatoria ,2002

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