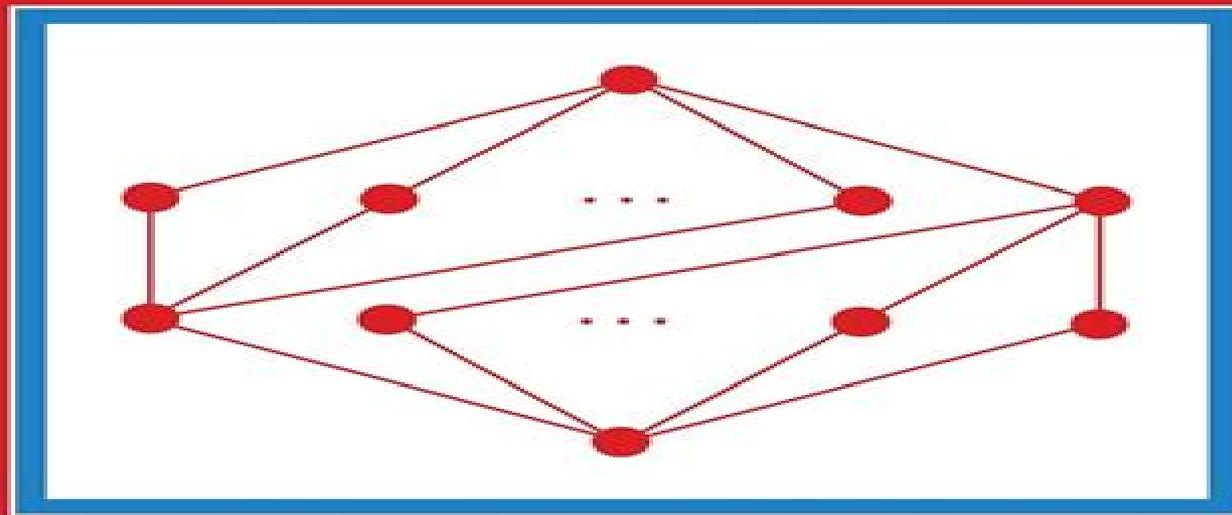# SPERNER THEORY

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   Information Theory, Combinatorics, and Search Theory Harout Aydinian,Ferdinando Cicalese,Christian Deppe,2013-03-09 This volume is dedicated to the memory of Rudolf Ahlswede who passed away in December 2010 The Festschrift contains 36 thoroughly refereed research papers from a memorial symposium which took place in July 2011 The four macro topics of this workshop theory of games and strategic planning combinatorial group testing and database mining computational biology and string matching information coding and spreading and patrolling on networks provide a comprehensive picture of the vision Rudolf Ahlswede put forward of a broad and systematic theory of search   *Sperner Theory in Partially Ordered Sets* Konrad Engel,Hans-Dietrich O. F. Gronau,1985   *Extremal Finite Set Theory* Daniel Gerbner,Balazs Patkos,2018-10-12 Extremal Finite Set Theory surveys old and new results in the area of extremal set system theory It presents an overview of the main techniques and tools shifting the cycle method profile polytopes incidence matrices flag algebras etc used in the different subtopics The book focuses on the cardinality of a family of sets satisfying certain combinatorial properties It covers recent progress in the subject of set systems and extremal combinatorics Intended for graduate students instructors teaching extremal combinatorics and researchers this book serves as a sound introduction to the theory of extremal set systems In each of the topics covered the text introduces the basic tools used in the literature Every chapter provides detailed proofs of the most important results and some of the most recent ones while the proofs of some other theorems are posted as exercises with hints Features Presents the most basic theorems on extremal set systems Includes many proof techniques Contains recent developments The book s contents are well suited to form the syllabus for an introductory course About the Authors D niel Gerbner is a researcher at the Alfr d R nyi Institute of Mathematics Hungarian Academy of Sciences in Budapest Hungary He holds a Ph D from E tv s Lor nd University Hungary and has contributed to numerous publications His research interests are in extremal combinatorics and search theory Bal zs Patk s is also a researcher at the Alfr d R nyi Institute of Mathematics Hungarian Academy of Sciences He holds a Ph D from Central European University Budapest and has authored several research papers His research interests are in extremal and

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Fundamentals of Computation Theory Lothar Budach,1979   *Coding Theory and Design Theory* Dijen Ray-Chaudhuri,1990-04-02 This IMA Volume in Mathematics and its Applications Coding Theory and Design Theory Part I Coding Theory is based on the proceedings of a workshop which was an integral part of the 1987 88 IMA program on APPLIED COMBINATORICS We are grateful to the Scientific Committee Victor Klee Chairman Daniel Kleitman Dijen Ray Chaudhuri and Dennis Stanton for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizer Dijen Ray Chaudhuri for organizing a workshop which brought together many of the major figures in a variety of research fields in which coding theory and design theory are used A vner Friedman Willard Miller Jr PREFACE Coding Theory and Design Theory are areas of Combinatorics which found rich applications of algebraic structures Combinatorial designs are generalizations of finite geometries Probably the history of Design Theory begins with the 1847 pa per of Reverand T P Kirkman On a problem of Combinatorics Cambridge and Dublin Math Journal The great Statistician R A Fisher reinvented the concept of combinatorial 2 design in the twentieth century Extensive application of alge braic structures for construction of 2 designs balanced incomplete block designs can be found in R C Bose s 1939 Annals of Eugenics paper On the construction of balanced incomplete block designs Coding Theory and Design Theory are closely interconnected Hamming codes can be found in disguise in R C Bose s 1947 Sankhya paper Mathematical theory of the symmetrical factorial designs   Information Theory Sergio Verdú,Steven W. McLaughlin,2000 See   *A Source Book in Matroid Theory* Joseph P. S. Kung,1986 By Gian Carlo Rota The subjects of mathematics like the subjects of mankind have finite lifespans which the historian will record as he freezes history at one instant of time There are the old subjects loaded with distinctions and honors As their problems are solved away and the applications reaped by engineers and other moneymen ponderous treatises gather dust in library basements awaiting the day when a generation as yet unborn will rediscover the lost paradise in awe Then there are the middle aged subjects You can tell which they are by roaming the halls of Ivy League universities or the Institute for Advanced Studies Their high priests haughtily refuse fabulous offers from eager provin cial universities while receiving special permission from the President of France to lecture in English at the College de France Little do they know that the load of technicalities is already critical about to crack and submerge their theorems in the dust of oblivion that once enveloped the dinosaurs Finally there are the young subjects combinatorics for instance Wild eyed individuals gingerly pick from a mountain of intractable problems chil dishly babbling the first words of what will soon be a new language Child hood will end with the first Seminaire Bourbaki It could be impossible to find a more fitting example than matroid theory of a subject now in its infancy The telltale signs for an unfailing diagnosis are the abundance of deep theorems going together with a paucity of theories   **Sperner's Theorem on Maximal-sized Antichains and Its Generation** Chung Laung Liu,1974   *Fundamentals of Computation Theory* ,1979   Combinatorial Theory and Its Applications Paul Erdős,Alfréd Rényi,Vera T. Sós,1970   Gian-Carlo Rota on Combinatorics Gian-Carlo Rota,Joseph P. S.

Kung,1995 This volume will be of interest to experts as well as beginning graduate students particularly as a source of research problems   Combinatorics of Finite Sets Ian Anderson (Ph. D.),1987 It is the aim of this book to provide a coherent and up to date account of the basic methods and results of the combinatorial study of finite set systems

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