

Coloring mixed hypergraph $H=(X,C,D)$: numbers = colors

Proper 2-,3-,... λ -coloring:

Strict 2-coloring:



Color Mixed Hypergraphs

C.S. Calude



Color Mixed Hypergraphs:

Coloring Mixed Hypergraphs: Theory, Algorithms and Applications Vitaly Ivanovich Voloshin, 2002 The theory of graph coloring has existed for more than 150 years Historically graph coloring involved finding the minimum number of colors to be assigned to the vertices so that adjacent vertices would have different colors From this modest beginning the theory has become central in discrete mathematics with many contemporary generalizations and applications Generalization of graph coloring type problems to mixed hypergraphs brings many new dimensions to the theory of colorings A main feature of this book is that in the case of hypergraphs there exist problems on both the minimum and the maximum number of colors This feature pervades the theory methods algorithms and applications of mixed hypergraph coloring The book has broad appeal It will be of interest to both pure and applied mathematicians particularly those in the areas of discrete mathematics combinatorial optimization operations research computer science software engineering molecular biology and related businesses and industries It also makes a nice supplementary text for courses in graph theory and discrete mathematics This is especially useful for students in combinatorics and optimization Since the area is new students will have the chance at this stage to obtain results that may become classic in the future

Coloring Mixed Hypergraphs Vitaly I. Voloshin, 2002 The theory of graph coloring has existed for more than 150 years Historically graph coloring involved finding the minimum number of colors to be assigned to the vertices so that adjacent vertices would have different colors From this modest beginning the theory has become central in discrete mathematics with many contemporary generalizations and applications Generalization of graph coloring type problems to mixed hypergraphs brings many new dimensions to the theory of colorings A main feature of this book is that in the case of hypergraphs there exist problems on both the minimum and the maximum number of colors

Mixed Hypergraphs and Other Coloring Daniel Král', 2003

Contemporary Trends in Discrete Mathematics Ronald L. Graham, 1999-01-01

Discrete mathematics stands among the leading disciplines of mathematics and theoretical computer science This is due primarily to its increasing role in university curriculae and its growing importance in applications ranging from optimization to molecular biology An inaugural conference was held cooperatively by DIMATIA and DIMACS to focus on the versatility width and depth of current progress in the subject area This volume offers a well balanced blend of research and survey papers reflecting the exciting attractive topics in contemporary discrete mathematics Discussed in the book are topics such as graph theory partially ordered sets geometrical Ramsey theory computational complexity issues and applications

[Mathematical Foundations of Computer Science 2001](#) Jiri Sgall, Ales Pultr, Petr Kolman, 2003-08-06 This book constitutes the refereed proceedings of the 26th International Symposium on Mathematical Foundations of Computer Science MFCS 2001 held in Mariánské Lázně Czech Republic in August 2001 The 51 revised full papers presented together with 10 invited contributions were carefully reviewed and selected from a total of 118 submissions All current aspects of theoretical computer science are addressed ranging from mathematical logic and programming theory to algorithms discrete

mathematics and complexity theory Besides classical issues modern topics like quantum computing are discussed as well

Horizons of Combinatorics Ervin Gyori, Gyula O.H. Katona, László Lovász, 2008-10-20 Hungarian mathematics has always been known for discrete mathematics including combinatorial number theory set theory and recently random structures and combinatorial geometry The recent volume contains high level surveys on these topics with authors mostly being invited speakers for the conference Horizons of Combinatorics held in Balatonalmadi Hungary in 2006 The collection gives an overview of recent trends and results in a large part of combinatorics and related topics *Mathematical Foundations of Computer Science 2001* Ales Pultr, 2001-08-15 This book constitutes the refereed proceedings of the 26th International Symposium on Mathematical Foundations of Computer Science MFCS 2001 held in Marianske Lazne Czech Republic in August 2001 The 51 revised full papers presented together with 10 invited contributions were carefully reviewed and selected from a total of 118 submissions All current aspects of theoretical computer science are addressed ranging from mathematical logic and programming theory to algorithms discrete mathematics and complexity theory Besides classical issues modern topics like quantum computing are discussed as well **Mathematical Reviews**, 2008 **Mathematical Foundations of Computer Science**, 2001 *Congressus Numerantium*, 2000 *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society, 2008 **Discussiones Mathematicae**, 2000

Fundamentals of Computation Theory, 2001 *Combinatorics, Computability and Logic* C.S. Calude, 2001-06-22 This volume contains the papers presented at the Third Discrete Mathematics and Theoretical Computer Science Conference DMTCS1 which was held at Ovidius University Constantza Romania in July 2001 The conference was open to all areas of discrete mathematics and theoretical computer science and the papers contained within this volume cover topics such as abstract data types and specifications algorithms and data structures automata and formal languages computability complexity and constructive mathematics discrete mathematics combinatorial computing and category theory logic nonmonotonic logic and hybrid systems molecular computing *Forthcoming Books* Rose Arny, 2002 *Bulletin of the Institute of Combinatorics and Its Applications*, 2003 *Electrical & Electronics Abstracts*, 1997 Maximum Gap of Mixed Hypergraph, A mixed hypergraph is a triple $H = (X, C, D)$ where X is the vertex set and each of C, D is a list of subsets of X A strict t coloring is a onto mapping from X to $1, 2, \dots, t$ such that each c belongs to C contains two vertices have a common value and each d belongs to D has two vertices have distinct values If H has a strict t coloring then t belongs to $S(H)$ such $S(H)$ is called the feasible set of H and k is a gap if there are a value larger than k and a value less than k in the feasible set but k is not We find the minimum and maximum gap of a mixed hypergraph with more than 5 vertices Then we consider two special cases of the gap of mixed hypergraphs First if the mixed hypergraphs is spanned by a complete bipartite graph then the gap is decided by the size of bipartition Second the (l, m) uniform mixed hypergraphs has gaps if $(l, m) = (2, 2)$ and we prove that the minimum number of vertices of a (l, m) uniform mixed hypergraph which has gaps is $m - 2 \lfloor l/m \rfloor + 1$ *American Book Publishing*

Record ,2002 *Le Matematiche* ,2004

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