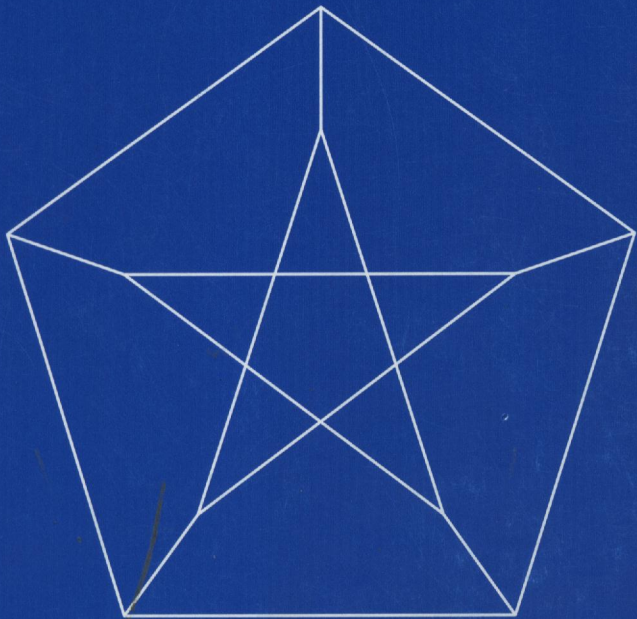


DISCRETE MATHEMATICS



EuroComb'01

Guest Editors:
Jaroslav Nešetřil
Marc Noy
Oriol Serra

Volume 273, Numbers 1–3, Pages 1–276
6 December 2003

Discrete Mathematics
Volume 273, Numbers 1–3, 6 December 2003

EuroComb'01

Guest Editors:
Jaroslav Nešetřil, Marc Noy, Oriol Serra

Contents

Foreword	1
Guest Editors	7
<i>R. Ahlswede, H. Aydinian and L.H. Khachatryan</i> Extremal problems under dimension constraints	9
<i>R. Ahlswede, H. Aydinian and L.H. Khachatryan</i> Maximal antichains under dimension constraints	23
<i>N. Alon</i> Problems and results in extremal combinatorics—I	31
<i>K. Ando, A. Kaneko and K. Kawarabayashi</i> Vertices of degree 6 in a contraction critically 6-connected graph	55
<i>A.R. Berg, B. Jackson and T. Jordán</i> Edge splitting and connectivity augmentation in directed hypergraphs	71
<i>V. Bouchitté, F. Mazoit and I. Todinca</i> Chordal embeddings of planar graphs	85
<i>P.J. Cameron</i> Random strongly regular graphs?	103
<i>C. Gavoille and C. Paul</i> Distance labeling scheme and split decomposition	115
<i>D. Krob, J. Mairesse and I. Michos</i> Computing the average parallelism in trace monoids	131
<i>U. Leck</i> On the orthogonal product of simplices and direct products of truncated Boolean lattices	163
<i>M. LoebI, J. Nešetřil and B. Reed</i> A note on random homomorphism from arbitrary graphs to \mathbb{Z}	173
<i>C. McDiarmid and B. Reed</i>	

<i>O. Pikhurko</i>	
Further asymptotic size Ramsey results obtained via linear programming	193
<i>R. Šámal</i>	
Antisymmetric flows and strong oriented coloring of planar graphs	203
<i>S. Suzuki and T. Ibaraki</i>	
Average running time analysis of an algorithm to calculate the size of the union of Cartesian products	211
<i>D.R. Wood</i>	
Geometric thickness in a grid	221
<i>N.C. Wormald</i>	
Analysis of greedy algorithms on graphs with bounded degrees	235
<i>H.-G. Yeh and X. Zhu</i>	
4-Colorable 6-regular toroidal graphs	261
Author index to volume 273	275