

## List of Publications

Wenan Zang

1. *Ranking Tournaments with No Errors II: Minimax Relation*, J. Combin. Theory Ser. B **142** (2020), 244-275. (with X. Chen, G. Ding, and Q. Zhao)
2. *Ranking Tournaments with No Errors I: Structural Description*, J. Combin. Theory Ser. B **141** (2020), 264-294. (with X. Chen, G. Ding, and Q. Zhao)
3. *Densities, Matchings, and Fractional Edge-Colorings*, SIAM J. Optim. **29** (2019), 240-261. (with X. Chen and Q. Zhao)
4. *When is the Matching Polytope Box-totally Dual Integral?* Math. Oper. Res. **43** (2018), 64-99. (with G. Ding and L. Tan)
5. *On Box-Perfect Graphs*, J. Combin. Theory Ser. B **128** (2018), 17-46. (with G. Ding and Q. Zhao)
6. *A Polyhedral Description of Kernels*, Math. Oper. Res. **41** (2016), 969-990. (with Q. Chen and X. Chen)
7. *Coloring Digraphs with Forbidden Cycles*, J. Combin. Theory Ser. B **115** (2015), 210-223. (with Z. Chen and J. Ma)
8. *Nowhere-Zero 3-Flows in Signed Graphs*, SIAM J. Discrete Math. **28** (2014), 1628-1637. (with Y. Wu, D. Ye, and C.Q. Zhang)
9. *An Optimal Binding Number Condition for Bipancyclism*, SIAM J. Discrete Math. **27** (2013), 597-618. (with Z. Hu and K. Law)
10. *Approximate Min-Max Relations on Plane Graphs*, J. Comb. Optim. **26** (2013), 127-134. (with J. Ma and X. Yu)
11. *The Circumference of a Graph with no  $K_{3,t}$ -Minor, II*, J. Combin. Theory Ser. B **102** (2012), 1211-1240. (with G. Chen and X. Yu)
12. *The Maximum-Weight Stable Matching Problem: Duality and Efficiency*, SIAM J. Discrete Math. **26** (2012), 1346-1360. (with X. Chen, G. Ding, and X. Hu)
13. *Total Dual Integrality in Some Facility Location Problems*, SIAM J. Discrete Math. **26** (2012), 1022-1030. (with X. Chen and Z. Chen)
14. *Bonds with Parity Constraints*, J. Combin. Theory Ser. B **102** (2012), 588-609. (with X. Chen, G. Ding, and X. Yu)
15. *Approximating the Chromatic Index of Multigraphs*, J. Comb. Optim. **21** (2011), 219-246. (with G. Chen and X. Yu)
16. *A Unified Approach to Box-Mengerian Hypergraphs*, Math. Oper. Res. **35** (2010), 655-668. (with X. Chen and Z. Chen)
17. *Packing Circuits in Matroids*, Math. Program. Ser. A **119** (2009), 137-168. (with G. Ding)
18. *A Characterization of Almost CIS Graphs*, SIAM J. Discrete Math. **23** (2009), 749-753. (with Y. Wu and C.Q. Zhang)

19. *The Box-TDI System Associated with 2-Edge Connected Spanning Subgraphs*, Discrete Applied Math. **157** (2009), 118-125. (with X. Chen and G. Ding)
20. *Odd  $K_4$ 's in Stability Critical Graphs*, Discrete Math. **309** (2009), 5982-5985. (with Z. Chen)
21. *A Characterization of Box-Mengerian Matroid Ports*, Math. Oper. Res. **33** (2008), 497-512. (with X. Chen and G. Ding)
22. *The Complexity of Recognizing Linear Systems with Certain Integrality Properties*, Math. Program. Ser. A **114** (2008), 321-334. (with G. Ding and L. Feng)
23. *Realizing Degree Sequences with Graphs Having Nowhere-Zero 3-Flows*, SIAM J. Discrete Math. **22** (2008), 500-519. (with R. Luo, R. Xu, and C.Q. Zhang)
24. *A Min-Max Theorem on Tournaments*, SIAM J. Comput. **37** (2007), 923-937. (with X. Chen and X. Hu)
25. *A Min-Max Relation on Packing Feedback Vertex Sets*, Math. Oper. Res. **31** (2006), 777-788. (with X. Chen, G. Ding, and X. Hu)
26. *The Circumference of a Graph with no  $K_{3,t}$ -Minor*, J. Combin. Theory Ser. B **96** (2006), 822-845. (with G. Chen, L. Sheppardson, and X. Yu)
27. *Approximating Longest Cycles in Graphs with Bounded Degrees*, SIAM J. Comput. **36** (2006), 635-656. (with G. Chen, Z. Gao, and X. Yu)
28. *Differential Methods for Finding Independent Sets in Hypergraphs*, SIAM J. Discrete Math. **20** (2006), 96-104. (with Y. Li)
29. *An Efficient Algorithm for Finding Maximum Cycle Packings in Reducible Flow Graphs*, Algorithmica **44** (2006), 195-211. (with X. Chen)
30. *Hamilton Paths in Toroidal Graphs*, J. Combin. Theory Ser. B **94** (2005), 214-236. (with R. Thomas and X. Yu)
31. *A Combinatorial Algorithm for Minimum Weighted Colorings of Claw-Free Perfect Graphs*, J. Comb. Optim. **9** (2005), 331-347. (with X. Li)
32. *Perfect Circular Arc Coloring*, J. Comb. Optim. **9** (2005), 267-280. (with X. Chen and Z. Hu)
33. *Ramsey Functions Involving  $K_{m,n}$  with  $n$  Large*, Discrete Math. **300** (2005), 120-128. (with Y. Li and X. Tang)
34. *Nowhere-Zero 4-Flows, Simultaneous Edge-Colorings, and Critical Partial Latin Squares*, Combinatorica **24** (2004), 641-657. (with R. Luo and C.Q. Zhang)
35. *Proof of Chvátal's Conjecture on Maximal Stable Sets and Maximal Cliques in Graphs*, J. Combin. Theory Ser. B **91** (2004), 301-325. (with X. Deng and G. Li)
36. *On-line Scheduling a Batch Processing System to Minimize Total Weighted Job Completion Time*, J. Comb. Optim. **8** (2004), 85-95. (with B. Chen and X. Deng)
37.  *$f$ -Factors in Bipartite  $(mf)$ -Graphs*, Discrete Applied Math. **136** (2004), 45-54. (with G. Liu)

38. *A 2-Approximation Algorithm for Path Coloring on a Restricted Class of Trees of Rings*, J. Algorithms **47** (2003), 1-13. (with X. Deng, G. Li, and Y. Zhou)
39. *The Independence Number of Graphs with a Forbidden Cycle and Ramsey Numbers*, J. Comb. Optim. **7** (2003), 353-359. (with Y. Li)
40. *Ramsey Numbers Involving Large Dense Graphs and Bipartite Turán Numbers*, J. Combin. Theory Ser. B **87** (2003), 280-288. (with Y. Li)
41. *Packing Cycles in Graphs, II*, J. Combin. Theory Ser. B **87** (2003), 244-253. (with G. Ding and Z. Xu)
42. *Packing Cycles in Graphs*, J. Combin. Theory Ser. B **86** (2002), 381-407. (with G. Ding)
43. *A Min-Max Theorem on Feedback Vertex Sets*, Math. Oper. Res. **27** (2002), 361-371. (with M. Cai and X. Deng)
44. *Group Testing and Fault Detection for Replicated Files*, Discrete Applied Math. **116** (2002), 231-242. (with F.K. Hwang)
45. *An Approximation Algorithm for Feedback Vertex Sets in Tournaments*, SIAM J. Comput. **30** (2001), 1993-2007. (with M. Cai and X. Deng)
46. *Asymptotic Upper Bounds for Ramsey Functions*, Graphs Combin. **17** (2001), 123-128. (with Y. Li and C. Rousseau)
47. *Totally Balanced Combinatorial Optimization Games*, Math. Program. Ser. A **87** (2000), 441-452. (with X. Deng, T. Ibaraki, and H. Nagamochi)
48. *Wavelength Allocation on Trees of Rings*, Networks **35** (2000), 248-252. (with X. Deng and G. Li)
49. *Solution to a Problem on Degree Sequences of Graphs*, Discrete Math. **219** (2000), 253-257. (with M. Cai and X. Deng)
50. *Acyclic Digraphs with the Gallai-Milgram-Linial Property for Clique Covers*, Discrete Math. **199** (1999), 183-192.
51. *A TDI System and Its Application to Approximation Algorithms*, Proc. 39<sup>th</sup> IEEE Symposium on Foundations of Computer Science (FOCS), Palo Alto, CA, 1998, pp. 227-233. (with M. Cai and X. Deng)
52. *Coloring Graphs with no Odd  $K_4$* , Discrete Math. **184** (1998), 205-212.
53. *Proof of Toft's Conjecture: Every Graph Containing no Fully Odd  $K_4$  is 3-Colorable*, J. Comb. Optim. **2** (1998), 117-188.
54. *Detecting Corrupted Pages in  $M$  Replicated Large Files*, IEEE Trans. Parallel Distrib. Syst. **8** (1997), 1241-1245. (with F.K. Hwang)
55. *Generalizations of Grillet's Theorem on Maximal Stable Sets and Maximal Cliques in Graphs*, Discrete Math. **143** (1995), 259-268.
56. *The Maximum Number of Diagonals of a Cycle in a Block and Its Extremal Graphs*, Discrete Math. **89** (1991), 51-63. (with F. Tian)