

The Publication List of Fan Chung 金芳蓉

Books:

1. *Spectral Graph Theory*, CBMS Lecture Series Number 92, AMS Publications, 1997, xii+207 pp.
2. *Erdos on Graphs, His Legacy of Unsolved Problems*, A. K. Peters, Wellesley, MA, 1998, xiv+142 pp. (with Ron Graham).
3. *Complex Graphs and Networks*, CBMS Lecture Series, Number 107, AMS Publications, 2006, vii+264pp. (with L. Lu).

Journals:

1. On the Ramsey numbers $N(3,3,\dots,3;2)$, *Discrete Math.* 5 (1973), 317–321.
2. On triangular and cyclic Ramsey numbers with k colors, *Graphs and Combinatorics*, Lecture Notes, No. 406, (1974), 236–242, Springer-Verlag, New York.
3. A problem on blocking probabilities in connecting networks, *Networks* 7 (1977), 185–192 (with F. K. Hwang).
4. Optimal rearrangeable graphs, *Bell System Tech. J.* 54 (1975), 1647–1661.
5. On multicolor Ramsey numbers for complete bipartite graphs, *J. Comb. Th.* (B) 18 (1975), 164–69 (with R. L. Graham).
6. On graphs which contain all small trees, *J. Comb. Th.* (B) 24 (1978), 14–23 (with R. L. Graham).
7. Steiner trees for the regular simplex, *Bull. of the Inst. of Math., Academia Sinica*, 4 (1976), 313–325 (with E. N. Gilbert).
8. On graphs which contain all small trees II, *Colloquia Mathematica Societatis János Bolyai*, Keszthely, Hungary, (1976), 213–223 (with R. L. Graham and N. Pippenger).
9. On the set of distances determined by the union of arithmetic progressions, *Ars Combinatoria*, 1 (1976), 57–76 (with R. L. Graham).
10. Some results on hook lengths, *Discrete Math.* 20 (1977), 33–40 (with J. E. Herman).
11. A lower bound for the Steiner tree problem, *SIAM J. on Applied Math.* (B), 34 (1978), 27–36 (with F. K. Hwang).
12. The largest minimal rectilinear Steiner trees for a set of N points enclosed in a rectangle with given perimeter, *Network* 9 (1979), 19–36 (with F. K. Hwang).
13. Do stronger players win more knockout tournaments?, *JASA* 73 (1978), 593–596 (with F. K. Hwang).
14. Steiner trees for ladders, *Annals of Discrete Math.* 2 (1978), 173–200 (with R. L. Graham).

15. An algebraic approach to switching networks, Bell Laboratories Internal Memorandum 1978.
16. On partitions of graphs into trees, *Discrete Math.* 23 (1978), 23–30.
17. On blocking probabilities for switching networks, *Bell System Tech. J.* 56 (1977), 1431–1446 (with F. K. Hwang).
18. On switching networks and block designs, *Conf. Record of the 10th Asilomar conf. on Circuits System and Computers* (1976), 212–218.
19. A generalization of Takagi's Theorem on optimal channel graphs, *Bell System Tech. J.* 57 (1978), 171–178 (with F. K. Hwang).
20. On blocking probabilities for a class of linear graphs, *Bell System Tech. J.* 57 (1978), 2915–2925 (with F. K. Hwang).
21. Optimal multistage networks, *IEEE Trans. on Communications* COM-26 (1978), 1282–1287.
22. Rotatable graceful graphs, *Ars Combinatoria* 11 (1981), 239–250 (with F. K. Hwang).
23. On the decompositions of graphs, *SIAM J. Alg. Disc. Methods* 2 (1981), 1–12.
24. The number of Baxter permutations, *J. Comb. Th. (A)*, 24 (1978), 382–394 (with R. L. Graham, V. E. Hoggatt and M. Kleiman).
25. On Steiner trees for bounded point sets, *Geometriae Dedicata* 11 (1981), 353–361 (with R. L. Graham).
26. Zone-balanced networks and block designs, *Bell System Tech. J.* 57 (1978), 2957–2971.
27. On complete bipartite subgraphs contained in spanning tree complements, *Studies in Pure Mathematics*, (ed.-in-chief P. Erdős) Akadémiai Kiadó, Budapest (1983), 83–90 (with B. Bollobás and R. L. Graham).
28. On the covering of graphs, *Discrete Math.* 30 (1980), 89–93.
29. On the decomposition of graphs into complete bipartite subgraphs, *Studies in Pure Mathematics*, Akadémiai Kiadó, Budapest, (1983) 95–101 (with P. Erdős and J. Spencer).
30. On the product of the point and line covering number of a graph, *Annals of the New York Academy of Sciences*, No. 319 (1979), 597–602 (with P. Erdős and R. L. Graham).
31. On concentrators, superconcentrators, generalizers and nonblocking networks, *Bell System Tech. J.* 58 (1979), 1765–1778.
32. A note on constructive methods for Ramsey numbers, *J. Graph Theory* 5 (1981)109–113.
33. Maximum antichains of rectangular arrays, *J. Comb. Theory* 27 (1979), 397–400 (with R. L. Graham, P. Erdős, D. J. Kleitman, D. West and G. Purdy (G. W. PECK)).
34. On universal graphs, *Annals of the New York Academy of Sciences*, No. 319 (1979), 136–140 (with R. L. Graham).
35. On universal graphs for spanning trees, *Journal of London Math. Soc.* 27 (1983), 203–211 (with R. L. Graham).

36. On switching networks and block designs, II, *Bell System Tech. J.* 59 (1980), 1165–1173.
37. Optimal spreading in n-dimensional rectilinear grids, *Stud. Appl. Math.* 62 (1980), 67–74 (with D. J. Kleitman (PECK)).
38. Minimal decomposition of graphs into mutually isomorphic subgraphs, *Combinatorica* 1 (1981), 13–24 (with P. Erdős and R. L. Graham).
39. On unimodal subsequences, *J. Comb. Th. (A)*, 29 (1980), 267–279.
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41. A conjectured minimum valuation tree, Problems and solutions, *SIAM Review* 20 (1978), 601–604.
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43. On graphs which contain all sparse graphs, *Annals of Discrete Math.* 12 (1982), 21–26 (with L. Babai, P. Erdős, R. L. Graham and J. Spencer).
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45. On optimal linear arrangements of trees, *Computers and Mathematics with Applications* 10 (1984), 43–60.
46. On the bandwidths of a graph and its complement, *The Theory and Applications of Graphs* (ed. G. Chartrand), John Wiley and Sons, (1981) 243–253 (with P. E. Chinn, P. Erdős and R. L. Graham).
47. Some problems and results on labelings of graphs, *The Theory and Application of Graphs* (ed. G. Chartrand), John Wiley and Sons, (1981) 255–264.
48. On the permanents of complements of the direct sum of identity matrices, *Adv. in Applied Math.* 2 (1981), 121–137 (with P. Diaconis, R. L. Graham and C. L. Mallows).
49. Universal caterpillars, *J. Comb. Th. (B)*, 31 (1981), 348–355 (with R. L. Graham and J. Shearer).
50. Minimal decompositions of hypergraphs into mutually isomorphic subhypergraphs, *J. Comb. Th. (A)* 32 (1982), 241–251 (with P. Erdős and R. L. Graham).
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58. The number of relation graphs, (with F. K. Hwang and D. Krantz) Bell Laboratories Internal Memorandum 1981.
59. A note on subtrees in tournaments, Bell Laboratories Internal Memorandum 1981.
60. Minimal decomposition of all graphs with equinumerous vertices and edges into mutually isomorphic subgraphs, in *Finite and Infinite Sets*, North-Holland, Amsterdam, (1981), 171–179 (with P. Erdős and R. L. Graham).
61. On unavoidable graphs, *Combinatorica* 3 (1983), 167–176 (with P. Erdős).
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73. Coding strings by pairs of strings, *Congressus Numerantium* 39 (1983), 183–191, Also in the SIAM Journal of Algebraic Discrete Methods, 6, (1985), 445–461. (with R. E. Tarjan, W. Paul, and R. Reishuk).

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