List of Selected Publications
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(updated on October 12, 2021)

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1 Graph Theory

1.1 Monographs


1.2 Book chapters


1.3 Research articles


170. Integer flows and modulo orientations of signed graphs (with Miaomiao Han, Jiaao Li, Rong Luo, Yongtang Shi) SIAM J. DISCRETE MATH. Vol. 35, No. 1, (2021) pp. 376-391; doi.org/10.1137/20M1317141

168. Berge-Fulkerson coloring for $C_{(12)}$-linked permutation graphs (with S. Liu, R. Hao, Z. Zhang) *Journal of Graph Theory, (2021)* DOI: 10.1002/jgt.22720


148. The 3-flow conjecture, factors modulo k, and the 1-2-3-conjecture, (with C. Thomassen, Y. Wu) *Journal of Combinatorial Theory, B.,* 121 (2016) p.308-325. dx.doi.org/10.1016/j.jctb.2016.06.010


126. On perfect matching coverings and even subgraph coverings (with X. Hou, H.-J. Lai) *J. Graph Theory* 81 (2016) 83-91; DOI: 10.1002/jglt.21863


Nowhere-zero 3-flows in products of graphs, (with J. L. Shu) *J. Graph Theory* 50 (2005) P. 79-89; DOI: 10.1002/jgt.20095 MR2157539

On circular flows of graphs (with Hong-Jian Lai, Rui Xu) *Combinatorica* 27 (2) (2007) p.245-246; DOI: 10.1007/s00493-007-0055-0 MR2321927


Edge-face chromatic number and edge chromatic number, (with R. Luo), *J. Graph Theory* 49: 234-256, 2005; DOI: 10.1002/jgt.20077 MR2145510


$(2+\epsilon)$-coloring of planar graphs with large odd girth, (with Klostermeyer) *J. Graph Theory* 33 (2000), no. 2, 109-119; DOI: 10.1002/(SICI)1097-0118(200002)33:2¡109::AID-JGT5¿3.0.CO;2-F MR1734301


On $(k,d)$-Colorings and Fractional Nowhere Zero Flows, (with Goddyn, Tarsi), *J. Graph Theory,* 28 (1998) 155-161; DOI: 10.1002/(SICI)1097-0118(199807) MR1626816

On embeddings of graphs containing no $K_5$-minor, *J. Graph Theory,* Vol. 21, No. 4, (1996) 401-404; DOI: 10.1002/(SICI)1097-0118(199604)21:4¡401::AID-JGT5¿3.0.CO;2-T MR1377613


On even circuit decompositions of eulerian graphs, *J. Graph Theory,* 18, No. 1 (1994) 51-57; DOI: 10.1002/jgt.3190180106 MR1248485


2 Applied Mathematics (Algorithm, optimization, data mining)

2.1 Patents


2.2 Research articles


139. Analyses of Crime Patterns in NIBRS Data Based on a Novel Graph Theory Clustering Method: Virginia as a Case Study (with Peixin Zhao, Marjorie Darrah, Jim Nolan), *The Scientific World Journal* Volume 2014, Article ID 492461, 8 pages; doi.org/10.1155/2014/492461

133. A Multi-dimensional and Multi-membership Clustering Method for Social Networks and Its Application in Customer Relationship Management (with Peixin Zhao, Di Wan and Xin Zhang), *Mathematical Problems in Engineering* Volume 2013, Article ID 323750, 8 pages


128. Spanning tree centrality: a novel centrality method for weighted networks (with Xingqin Qi, Edgar Fuller, Rong Luo, Wenliang Tang), (submitted)

120. Numerical Characterization of DNA sequence based on Dinucleotides (with Xingqin Qi, Eddie Fuller, Qin Wu ) *The Scientific World Journal* 2012, Article ID 104269, 6 pages


114. Terrorist networks, network energy and node removal: a new measure of centrality based on Laplacian energy (with Xingqin Qi, Robert D. Duval, Edgar Fuller, Kyle Christensen, Arian Spahiu, Qin Wu, Yezhou Wu, Wenliang Tang) *Social Networking* 2013, 2, 19-31


111. A novel model for DNA sequences phylogenetic analysis based on graph theory (with X. Qi, Q. Wu, Y. Zhang, E. Fuller) *Evolutionary Bioinformatics* 2011:7 149–158

