List of Selected Publications
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1 Graph Theory

1.1 Monographs


1.2 Book chapters


1.3 Research articles

145. Even Factors of Graphs (with Cheng, Zhu) (submitted)


131. A note on an extremal problem for group-connectivity (with Rong Luo, Yezhou Wu and Dong Ye), European Journal of Combinatorics 40 (2014) 137-141


126. On perfect matching coverings and even subgraph coverings (with X. Hou, H.-J. Lai) DOI: 10.1002/jgt.21863


106. Cycle covers (II) - circuit chain, Petersen chain and Hamilton weights J. Comb. Theory, B. (submitted)


77. Note on circular flows of graphs (with Hong-Jian Lai, Rui Xu) Combinatorica 27 (2) (2007) p.245-246 MR2321927


69. Edge-face chromatic number and edge chromatic number, (with R. Luo), J. Graph Theory 49: 234-256, 2005 MR2145510

63. $(2 + \epsilon)$-coloring of planar graphs with large odd girth, (with Klostermeyer) J. Graph Theory 33 (2000), no. 2, 109–119. MR1734301


46. On $(k, d)$-Colorings and Fractional Nowhere Zero Flows, (with Goddyn, Tarsi), J. Graph Theory, 28 (1998) 155-161 MR1626816

44. On embeddings of graphs containing no $K_5$-minor, J. Graph Theory, Vol. 21, No. 4, (1996) 401-404. MR1377613


40. On even circuit decompositions of eulerian graphs, J. Graph Theory, 18, No. 1 (1994) 51-57. 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

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 Spahić, 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

