



姓名：田应智

性别：男

职称：教授，博士生导师

E-mail: tianyzhxj@163.com

个人简历

田应智，1983年9月生，男，回族，宁夏海原人，中共党员。教授，博士生导师。2006年7月本科毕业于新疆大学，2009年7月硕士毕业于新疆大学，2012年7月博士毕业于新疆大学，2016年8月至2018年8月在美国西弗吉尼亚大学做博士后研究。2009年9月至今在在新疆大学数学与系统科学学院工作。

主要从事图论及其应用研究。现主持一项国家自然科学基金地区项目、一项自治区自然科学基金项目，主持完成国家自然科学基金2项、自治区自然科学基金项目1项、自治区教育厅自然科学基金项目1项，参加完成一项国家自然科学基金重点项目，发表SCI收录论文35篇。荣获2017年自治区科技进步二等奖1项（排名：3/5），2011年自治区科技进步一等奖1项（排名：12/12），2013年自治区第十二届自然科学优秀论文三等奖1项（排名：1/3），2014年新疆大学第四届青年科研奖。

科研项目

- 9、自治区自然科学基金，2018Q066， k -极大 r -一致有向超图的边数研究，2019/08-2021/8，8万元，在研，主持。
- 8、国家自然科学基金地区项目，11861066， k -点连通图中保持连通度的子树的研究，2019/01-2022/12，39万元，在研，主持。
- 7、国家自然科学基金重点项目，11531011，网络设计中的图论方法，2016/01-2020/12，230万元，已结题，参加。

- 6、国家自然科学基金青年项目, 11401510, 构造给定度序列的高阶连通图, 2015/01-2017/12, 23 万元, 已结题, 主持。
- 5、国家自然科学基金数学天元项目, 11326219, 对称图中保持连通度的子图的研究, 2014/01-2014/12, 3 万元, 已结题, 主持。
- 4、国家自然科学基金地区项目, 11461064, 黎曼-芬斯勒几何中若干问题的研究, 2015/01-2018/12, 40 万元, 已结题, 参加。
- 3、国家自然科学基金面上项目, 11171283, 双轨道图的连通性, 2012/01-2015/12, 48 万元, 已结题, 参加。
- 2、新疆维吾尔自治区自然科学基金青年项目, 2013211B02, 对称网络的可靠性研究, 2013/01-2015/12, 5 万元, 已结题, 主持。
- 1、新疆维吾尔自治区教育厅自然科学基金项目, XJEDU2013S03, 对称重图的条件连通度, 2014/01-2015/12, 2.5 万元, 已结题, 主持。

科研奖励

- 5、田应智(3/5), 图的连通性、谱和结构参数, 新疆维吾尔自治区人民政府, 自治区科技进步二等奖, 2017. 3. 21。
- 4、田应智(12/12), 图的优化问题及其应用, 新疆维吾尔自治区人民政府, 自治区科技进步一等奖, 2011. 11. 29。
- 3、田应智(1/3), On the connectivity of p -diamond-free vertex transitive graphs, 自治区科协、科技厅、人社厅, 新疆维吾尔自治区第十二届自然科学优秀论文三等奖, 2013. 6。
- 2、田应智, 2014 年新疆大学第四届青年科研奖, 新疆大学, 2014。
- 1、田应智(8/9), 图参数的优化问题, 新疆大学, 新疆大学第九届自然科学奖一等奖, 2012. 5. 22。

科研成果 (论文、专著等)

- [35] Xiaomin Hu, Yingzhi Tian, Jixiang Meng, Weihua Yang: Conditional fractional matching preclusion of n -dimensional torus networks. *Discret. Appl. Math.* 293: 157-165 (2021)
- [34] Liqiong Xu, Hong-Jian Lai, Yingzhi Tian: On the extremal sizes of maximal graphs without $(k+1)$ -connected subgraphs. *Discret. Appl. Math.* 285: 397-406 (2020)

- [33] Shuang Zhao, Yingzhi Tian, Jixiang Meng: Degree Sequence Conditions for Maximally Edge-Connected and Super Edge-Connected Hypergraphs. *Graphs Comb.* 36(4): 1065–1078 (2020)
- [32] Liqiong Xu, Yingzhi Tian, Hong-Jian Lai: On the sizes of bi- k -maximal graphs. *J. Comb. Optim.* 39(3): 859–873 (2020)
- [31] Dejin Qin, Yingzhi Tian, Laihuan Chen, Jixiang Meng: Cyclic vertex-connectivity of Cartesian product graphs. *Int. J. Parallel Emergent Distributed Syst.* 35(1): 81–90 (2020)
- [30] Yingzhi Tian, Huaping Ma, Liyun Wu: The Connectivity of a Bipartite Graph and Its Bipartite Complementary Graph. *Parallel Process. Lett.* 30(3): 2040005:1–2040005:9 (2020)
- [29] Yingzhi Tian, Hong-Jian Lai, Liqiong Xu, Jixiang Meng: Nonseparating trees in 2-connected graphs and oriented trees in strongly connected digraphs. *Discrete Mathematics* 342(2): 344–351 (2019)
- [28] Ruifang Liu, Hong-Jian Lai, Yingzhi Tian, Yang Wu: Vertex-connectivity and eigenvalues of graphs with fixed girth. *Applied Mathematics and Computation* 344–345: 141–149 (2019)
- [27] Yingzhi Tian, Hong-Jian Lai, Jixiang Meng: On the Sizes of Vertex- k -Maximal r -Uniform Hypergraphs. *Graphs and Combinatorics* 35(5): 1001–1010 (2019)
- [26] Xiaomin Hu, Weihua Yang, Yingzhi Tian, Jixiang Meng: Equal relation between g -good-neighbor diagnosability under the PMC model and g -good-neighbor diagnosability under the MM^* model of a graph. *Discrete Applied Mathematics* 262: 96–103 (2019)
- [25] Laihuan Chen, Jixiang Meng, Yingzhi Tian, Xiaodong Liang, Fengxia Liu: Connectivity of half vertex transitive digraphs. *Applied Mathematics and Computation* 316: 25–29 (2018)
- [24] Xiaomin Hu, Yingzhi Tian, Jixiang Meng: Super R_k -vertex-connectedness. *Applied Mathematics and Computation* 339: 812–819 (2018)
- [23] Yingzhi Tian, Jixiang Meng, Hong-Jian Lai, Liqiong Xu: Connectivity keeping stars or double-stars in 2-connected graphs. *Discrete Mathematics* 341(4): 1120–1124 (2018)
- [22] Xiaomin Hu, Yingzhi Tian, Xiaodong Liang, Jixiang Meng: Strong matching preclusion for k -composition networks. *Theor. Comput. Sci.* 711: 36–43 (2018)

- [21] Xiaomin Hu, Bin Zhao, Yingzhi Tian, Jixiang Meng: Matching preclusion for k -ary n -cubes with odd $k \geq 3$. *Discrete Applied Mathematics* 229: 90–100 (2017)
- [20] Xiaomin Hu, Yingzhi Tian, Xiaodong Liang, Jixiang Meng: Matching preclusion for n -dimensional torus networks. *Theor. Comput. Sci.* 687: 40–47 (2017)
- [19] Bin Zhao, Laihuan Chen, Yuepeng Zhang, Yingzhi Tian, Jixiang Meng: On the page number of triple-loop networks with even cardinality. *Ars Comb.* 124: 257–266 (2016)
- [18] Xianglan Cao, Yingzhi Tian, Jixiang Meng: Construction of super edge-connected multigraphs with prescribed degrees. *Ars Comb.* 127:3–13 (2016)
- [17] Xiaomin Hu, Yingzhi Tian, Xiaodong Liang, Jixiang Meng: Strong matching preclusion for n -dimensional torus networks. *Theor. Comput. Sci.* 635: 64–73 (2016)
- [16] Laihuan Chen, Jixiang Meng, Yingzhi Tian: $c\lambda$ -optimally connected mixed Cayley graph. *Ars Comb.* 121: 3–17 (2015)
- [15] Haining Jiang, Jixiang Meng, Yingzhi Tian: The Harary index of digraphs. *Ars Comb.* 123: 115–124 (2015)
- [14] Yingzhi Tian, Jixiang Meng: Restricted Connectivity for Some Interconnection Networks. *Graphs and Combinatorics* 31(5): 1727–1737 (2015)
- [13] Yingzhi Tian, Jixiang Meng: On super restricted edge-connectivity of vertex-transitive graphs. *Ars Comb.* 113: 211–223 (2014)
- [12] Yingzhi Tian, Jixiang Meng: On super connectedness and super restricted edge-connectedness of total graphs. *Ars Comb.* 114: 309–319 (2014)
- [11] Weihua Yang, Yingzhi Tian, Hengzhe Li, Hao Li, Xiaofeng Guo: The minimum restricted edge-connected graph and the minimum size of graphs with a given edge-degree. *Discrete Applied Mathematics* 167: 304–309 (2014)
- [10] Yingzhi Tian, Jixiang Meng, Hong-Jian Lai, Zhao Zhang: On the existence of super edge-connected graphs with prescribed degrees. *Discrete Mathematics* 328: 36–41 (2014)
- [9] Yingzhi Tian, Jixiang Meng: On restricted edge-connectivity of vertex-transitive multigraphs. *Int. J. Comput. Math.* 91(8): 1655–1661 (2014)

- [8] Mingzu Zhang, Jixiang Meng, Weihua Yang, Yingzhi Tian: Reliability analysis of bijective connection networks in terms of the extra edge-connectivity. *Inf. Sci.* 279: 374–382 (2014)
- [7] Yingzhi Tian, Jixiang Meng, Zhao Zhang: On the connectivity of p -diamond-free vertex transitive graphs. *Discrete Applied Mathematics* 160(7–8): 1285–1290 (2012)
- [6] Yingzhi Tian, Jixiang Meng, Xiaodong Liang: On Super Restricted Edge Connectivity of Half Vertex Transitive Graphs. *Graphs and Combinatorics* 28(2): 287–296 (2012)
- [5] Yingzhi Tian, Litao Guo, Jixiang Meng, Chengfu Qin: Inverse degree and super edge-connectivity. *Int. J. Comput. Math.* 89(6): 752–759 (2012)
- [4] Yingzhi Tian, Jixiang Meng: λ' -optimally connected mixed Cayley graphs. *Appl. Math. Lett.* 24(6): 872–877 (2011)
- [3] Yingzhi Tian, Jixiang Meng: Superconnected and Hyperconnected Small Degree Transitive Graphs. *Graphs and Combinatorics* 27(2): 275–287 (2011)
- [2] Yingzhi Tian, Jixiang Meng: On super restricted edge-connectivity of edge-transitive graphs. *Discrete Mathematics* 310(17–18): 2273–2279 (2010)
- [1] Yingzhi Tian, Jixiang Meng: λ -Optimally half vertex transitive graphs with regularity k . *Inf. Process. Lett.* 109(13): 683–686 (2009)