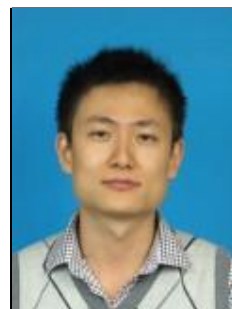


石一铄 (博士, 副教授, 硕士生导师)



教育背景

- 2012 年 9 月 - 2017 年 12 月 博士研究生, 新疆大学数学与系统科学学院, 理学博士
- 2007 年 9 月 - 2011 年 6 月 本科, 河北联合大学 (现华北理工大学) 理学院, 理学学位

经历

工作经历

- 2025 年 12 月 - 至今 副教授, 温州大学数理学院
- 2020 年 9 月 - 2025 年 12 月 讲师, 温州大学数理学院
- 2018 年 4 月 - 2020 年 7 月 博士后, 台湾中央研究院资讯科学研究所

研究方向

- 1 社会网络中算法设计与分析: 主要但不限于覆盖性问题, 影响传播问题
- 2 通讯网络中算法设计与分析: 主要但不限于连通性问题, 覆盖性问题, 容错网络设计, VR 视图合成
- 3 以社会网络, 通讯网络, 机器学习为背景的 (非) 次模优化问题
- 4 大规模网络中分布式计算, 局部算法

荣誉和奖励

2022 年度温州大学优秀教师

主持和参与项目

学术项目

2013 年 6 月 - 2014 年 12 月, 项目名称 “关于无线传感网络连通控制集的研究”

（项目编号 XJGRI2013012） 新疆研究生创新项目（主持）

2017 年 1 月-2017 年 12 月，项目名称“图的最小双解集问题研究”（项目编号 11626204）国家自然科学基金项目数学天元基金项目（参与）

2018 年 1 月-2021 年 12 月，项目名称“部分集合多重覆盖问题的近似算法”（项目编号 11771013）国家自然科学基金面上项目（参与）

2022 年 1 月-2024 年 12 月，项目名称“带背包约束的最大化非次模函数问题的近似算法”，（项目编号 12101464）国家自然科学基金青年科学基金项目（主持）

2022 年 1 月-2024 年 12 月，项目名称“追溯无症状感染者及相关问题的算法设计与分析”，（项目编号 LQ22A010004）浙江省自然科学基金探索青年项目（主持）

论文

学术论文

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2. Zhao Zhang, **Y. Shi**. Approximation algorithm for minimum weight fault-tolerant virtual backbone in homogeneous wireless sensor network. INFOCOM (2015) 1080-1085.
3. **Y. Shi**, Y. Zhang, Zhao Zhang and W. Wu. A greedy algorithm for the minimum 2-connected m-fold dominating set problem. J. Comb. Optim. (2016) 31:136-151.
4. Yingli Ran, **Y. Shi** and Zhao Zhang. Local ratio method on partial set multi-cover. J. Comb. Optim. (2017) 34(1): 302-313.
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8. **Y. Shi**, Zhao Zhang and Ding-Zhu Du. A bicriteria approximation algorithm for minimum submodular cost partial multi-cover problem, AAIM (2018) 62-73.
9. Yingli Ran, **Y. Shi** and Zhao Zhang. Primal dual algorithm for partial set multi-cover. COCOA (2018) 372-385.
10. X. Li, **Y. Shi** and X. Huang. PTAS for H-free node deletion problems in disk

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11. **Y. Shi**, Yingli Ran, Zhao Zhang, J. Willson, G. Tong, Ding-Zhu Du. Approximation algorithm for the partial set multi-cover Problem. Journal of Global Optimization (2019) 75(4): 1133-1146.
12. T-C. Chang, **Y. Shi**, De-Nian Yang and W-T. Chen. Seed selection and social coupon allocation for redemption maximization in online social networks. ICDE (2019) 410-421.
13. Z. Chen, Zhao Zhang, Yingli Ran, **Y. Shi**, and Ding-Zhu Du. Data mule scheduling on a path with handling time and time span constraints. Optimization Letters (2019).
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15. **Y. Shi**, Yingli Ran, Zhao Zhang and Ding-Zhu Du. A Bicriteria Algorithm for the Minimum Submodular Cost Partial Set Multi-Cover Problem. Theoretical Computer Science (2020) 803: 1-9.
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17. Y. Ran, **Y. Shi**, C. Tang and Z. Zhang. A primal-dual algorithm for the minimum partial set multi-cover problem. Journal of Combinatorial Optimization (2020) 39: 725-746.
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指导硕士生

赖小燕，赵辉，李兰，张凯达，黄煜茹

指导本科生竞赛

2021 全国大学生数学建模竞赛 国家二等奖 本科生：林益舒 林琰 胡冉欣；指导教师：石一铄，高利新

科研获奖

1. **Yishuo Shi**, Zhao Zhang, Y. Mo and Ding-Zhu Du. Approximation Algorithm for Minimum Weight Fault-Tolerant Virtual Backbone in Unit Disk Graphs. 中国运筹学会图论组合分会青年论文优秀奖. 2017 年
2. **Yishuo Shi**, Zhao Zhang and Ding-Zhu Du. A Bicriteria Approximation Algorithm for Minimum Submodular Cost Partial Multi-Cover Problem. AAIM 会议最佳论文奖. 2018 年.
3. Yingli Ran, **Yishuo Shi** and Zhao Zhang. Primal dual algorithm for partial set multi-cover. COCOA 会议最佳论文奖. 2018 年