



黄鸣

副教授

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教育背景

大连理工大学理学博士（2015）

大连理工大学理学学士（2008）

研究领域

非光滑优化，特征值优化

论文类：

第一作者

代表性成果

1. **Ming Huang(黄鸣)**, Li Ping Pang, Zun Quan Xia, The space decomposition theory for a class of eigenvalue optimizations, Computational Optimization and Applications, 58, 423-454, 2014. (SCI, 优化领域公认期刊)

2. **Ming Huang(黄鸣)**, Li Ping Pang, Yuan Lu, Zun Quan Xia, A fast space-decomposition scheme for nonconvex eigenvalue optimization, Set-Valued and Variational Analysis, 25, 43-67, 2017. (SCI, 优化领域公认期刊)

3. **Ming Huang(黄鸣)**, Yue Lu, Li Ping Pang, Zun Quan Xia, A space decomposition scheme for maximum eigenvalue functions and its applications, Mathematical Methods of Operations Research, 85(3), 453-490, 2017. (SCI, 优化领域公认期刊)

4. **Ming Huang(黄鸣)**, Li Ping Pang, Xi Jun Liang, Fan Yun Meng, A second-order bundle method based on UV-decomposition for a special class of eigenvalue optimizations, Numerical Functional Analysis and Optimization, 37, 554-582, 2016. (SCI, 优化领域公认期刊)

5. **Ming Huang(黄鸣)**, Xi Jun Liang, Yuan Lu, Li Ping Pang, The bundle

scheme for solving arbitrary eigenvalue optimizations, *Journal of Industrial and Management Optimization*, 13, 659-680, 2017. (SCI, 优化领域公认期刊)

6. Ming Huang(黄鸣), Cong Cheng, Yang Li and Zun Quan Xia, The space decomposition method for the sum of nonlinear convex maximum eigenvalues and its applications, *Journal of Industrial and Management Optimization*, 16 (4), 1885-1905, 2020. (SCI, 优化领域公认期刊)

7. Ming Huang(黄鸣), Yue Lu, Jin Long Yuan and Yang Li, A decomposition algorithm for the sums of the largest eigenvalues, *Numerical Functional Analysis and Optimization*, 41(16), 1936–1969, 2020. (SCI, 优化领域公认期刊)

8. Ming Huang(黄鸣), Si Da Lin, Jin Long Yuan, Zhao Hua Gong, Xi Jun Liang, A VU-decomposition technique for a class of eigenvalue optimizations, *Pacific Journal of Optimization*, 16(1), 129-142, 2020. (SCI, 优化领域公认期刊)

9. Ming Huang(黄鸣), Yuan Lu, Li Ping Pang and Zun Quan Xia, The space decomposition strategy to a class of nonconvex constrained optimization, *Pacific Journal of Optimization*, 16 (1), 101-115, 2020. (SCI, 优化领域公认期刊)

10. Ming Huang(黄鸣), Jin Long Yuan, Si Da Lin, Xi Jun Liang and Chong Yang Liu, On solving the convex semi-infinite minimax problems via superlinear VU incremental bundle technique with partial inexact oracle, *Asia-Pacific Journal of Operational Research*, 38(5), 2140015, 2021. (SCI, 优化领域公认期刊)

11. Ming Huang(黄鸣), Li Ping Pang, Zun Quan Xia, UV-theory of a class of semidefinite programming and its applications, *Acta Mathematicae Applicatae Sinica(English Series)*, 37, 717-737, 2021. (SCI)

12. Ming Huang(黄鸣), Li Ping Pang, Xi Jun Liang, Zun Quan Xia, The space decomposition theory for a class of semi-infinite maximum eigenvalue optimizations, *Abstract and Applied Analysis*, Volume 2014, Article ID 845017, 12 pages, DOI 10.1155/2014/845017, 2014. (SCI)

13. Ming Huang(黄鸣), Li Ping Pang, Yuan Lu and Zun Quan Xia, A superlinear VU space-decomposition algorithm for semi-infinite constrained programming, *Journal of Applied Mathematics & Informatics*, 30, 759-772, 2012.

其他

14. Yue Lu, Ming Huang(黄鸣), Yi Zhang, Jian Gu, A nonconvex ADMM for a class of sparse inverse semidefinite quadratic programming problems, *Optimization*, 68(6), 1075-1105, 2019. (SCI, 优化领域公认期刊)

15. Si Da Lin, Ming Huang(黄鸣), Zun Quan Xia and Dan Li,

Quasidifferentiability of the expectation functions of random quasidifferentiable functions, Optimization, 71(6), 1509–1524, 2022.

(SCI, 优化领域公认期刊)

16. Zong Ke Bao, **Ming Huang(黄鸣)**, Xi Qiang Xia, A predictor-corrector method for solving equilibrium problems, Abstract and Applied Analysis, Volume 2014, Article ID 313217, 11 pages, doi:10.1155/2014/313217, 2014. (SCI)

17. Jin Long Yuan, Jun Xie, **Ming Huang(黄鸣)**, Hou Ming Fan, En Min Feng, Zhi Long Xiu, Robust optimal control problem with multiple characteristic time points in the objective for a batch nonlinear time-varying process using parallel global optimization, Optimization and Engineering, 21, 905–937, 2020. (SCI, 优化领域公认期刊)

18. Jin Long Yuan, Jun Xie, Chong Yang Liu, Kok Lay Teo, **Ming Huang(黄鸣)**, Hou Ming Fan, En Min Feng, Zhilong Xiu, Robust optimization for a nonlinear switched time-delay system with noisy output measurements using hybrid optimization algorithm, Journal of the Franklin Institute, 356, 9730–9762, 2019. (SCI, 控制领域公认期刊)

19. Yang Liu, Chong Yang Liu, Jin Long Yuan, En Min Feng, Zhi Long Xiu, Liang Chang and **Ming Huang(黄鸣)**, The strong stability of a nonlinear time-delay system in batch process, Pacific Journal of Optimization, 15(2), 249-260, 2019. (SCI, 优化领域公认期刊)

20. Yuan Lu, Wei Wang, Shuang Chen, **Ming Huang(黄鸣)**, Stochastic methods based on VU-composition methods for stochastic convex minimax problems, Mathematical Problems in Engineering, Volume 2014, Article ID 894248, 5 pages, DOI 10.1155/2014/894248, 2014. (SCI)

(1) 国家自然科学基金青年基金, 11701063, 求解几类特征值优化问题的理论与算法实现, 2017/08–2020/12, 结题, 主持。

(2) 国家自然科学基金数学天元基金, 11626053, 求解非光滑半无限规划问题的理论与算法实现, 2017/01–2017/12, 结题, 主持。

代表性项目

(3) 博士后国际交流计划派出项目基金, 2020003, 几类具有光滑结构的非光滑随机优化的分解方法, 2020/06–2023/10, 在研, 主持。

(4) 中国博士后科学基金面上项目, 2019M651091, 求解结构非光滑非凸优化的 VU 分解理论与算法, 2019/06–2023/12, 在研, 主持。

(5) 中国博士后科学基金面上项目, 2016M601296, 求解 H 无

穷控制合成的非光滑二阶 VU 分解方法, 2016/11-2018/12, 结题, 主持。

(6) 大连市高层次人才创新支持计划项目—青年科技之星, 2020RQ047, 约束优化问题的非光滑算法及其在带有机会约束的能源规划中的应用, 2021/04-2023/12, 在研, 主持。

荣誉奖励

(1) 2018. 12 获辽宁省第十二批“百千万人才工程”万人层次

(2) 2021. 04 获大连市“青年科技之星”称号

(3) 2019. 03 获首批大连海事大学“星海工程”教师培养计划

(4) 2014. 06 获大连市优秀博士毕业生

(5) 论文 A space decomposition scheme for maximum eigenvalue functions and its applications 获辽宁省自然科学学术成果奖学术论文类三等奖

社会兼职

担任下列国际期刊审稿人:

[1] «Set-Valued and Variational Analysis»SCI, 2018—

[2] «Asia-Pacific Journal of Operational Research»SCI, 2020—

担任下列国际期刊编委:

[1] «American Journal of Applied Mathematics»2018—