新增工作经历

2022.10-2023.08 香港大学工业及制造系统工程系, 博士后

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﻿国家自然科学基金委员会,面上项目,非凸约束优化问题二阶算法及复杂度分析,2023-01-01 至 2026-12-31,在研,参与.

﻿国家自然科学基金委员会,青年科学基金项目, 多项正则非凸优化问题的随机 DC 算法研究,2022-01-01 至 2024-12-31,30 万元,在研,主持

发表论文更改为；

Personal Homepage: https://kaitu02.github.io/

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Published Papers

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[1] Zhichun Yang, Fu-quan Xia, Kai Tu and Man-Chung Yue. Variance Reduced Random Relaxed Projection Method for Constrained Finite-sum Minimization Problems. Accepted for publication in IEEE Transactions on Signal Processing, 2024.

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[2] Xiaobo Li, Kai Tu and Jian Lu. Convergence analysis of the DFP algorithm for unconstrained optimization problems on Riemannian manifolds. Optimization Letters, 2024, https:doi.org10.1007s11590-024-02103-2

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[3] Zhichun Yang, Fu-quan Xỉa and Kai Tu. Variance reduced moving balls approximation method for smooth constrained minimization problems. Optimization Letters, 2023, https:doi.org10.1007s11590-023-02049-x

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[4] Wanyu Wang, Fu-quan Xia and Kai Tu. Inertial-type incremental constraint projection method for solving variational inequalities without Lipschitz continuity. Numerical Algorithms, 2022, 89: 1769–1798.

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[5] Kai Tu, Haibin Zhang, Huan Gao and Junkai Feng. A hybrid Bregman alternating direction method of multipliers for the linearly constrained difference-of-convex problems. Journal of Global Optimization, 2020, 76: 665-693.

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[6] Kai Tu, Haibin Zhang and Fu-quan Xia. A new alternating projection-based prediction–correction method for structured variational inequalities. Optimization Methods and Software, 2020, 76: 665-693.

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[7] Huan Gao, Haibin Zhang, Zhibao Li and Kai Tu. Optimality analysis on partial L1-minimization recovery. Journal of Global Optimization, 2019, 34: 707-730.

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Preprints

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[1] Chao-Jing Chao, Fu-Quan Xỉa, Kai Tu and Jian Lu. An improved random projection type algorithm for the multiple-sets split feasibility problem. Submitted, 2023.

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[2] Kai Tu, Zhi Chen, Man-Chung Yue. A Max-Min-Max Algorithm for Large-Scale Robust Optimization. Submitted, 2024.