

Stanford



Chenghan Xie

Ph.D. Student in Management Science and Engineering, admitted Autumn 2024

Bio

BIO

An idiot with hope

LINKS

- Google Scholar: https://scholar.google.com/citations?view_op=list_works&hl=en&user=-npEdYsAAAAJ&gmla=AC6IMd94r5n8wz-zYclTajPVOL7sUswvFSFJGVLpkVFnszanea9TvTyNuudpR0PvSC60PHbsRlot1DrMb7UXJYLLHYQg4qb1z6SYzziQk

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Optimization, theory & practice. Energy-aware AI, neural-network structure & data center management.

Publications

PUBLICATIONS

- **PLMSearch: Protein language model powers accurate and fast sequence search for remote homology.** *Nature communications*
Liu, W., Wang, Z., You, R., Xie, C., Wei, H., Xiong, Y., Yang, J., Zhu, S.
2024; 15 (1): 2775
- **Sketched Newton Value Iteration for Large-Scale Markov Decision Processes**
Liu, J., Xie, C., Deng, Q., Ge, D., Ye, Y.
edited by Wooldridge, M., Dy, J., Natarajan, S.
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2024: 13936-13944
- **Trust Region Methods for Nonconvex Stochastic Optimization beyond Lipschitz Smoothness**
Xie, C., Li, C., Zhang, C., Deng, Q., Ge, D., Ye, Y.
edited by Wooldridge, M., Dyl, J., Natarajan, S.
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2024: 16049-16057