Stanford



Chenghan Xie

- Ph.D. Student in Management Science and Engineering, admitted Autumn 2024
- Masters Student in Management Science and Engineering, admitted Autumn 2026

Bio

BIO

An idiot with hope

LINKS

- Google Scholar: https://scholar.google.com/citations?view_op=list_works&hl=en&user=-npEdYsAAAAJ&gmla=AC6lMd94r5n8wz-zYclLtaJPVOL7sUswvFSFJGVLpkVFnszanea9TvTyNuudpR0PvSC60PHbsRlot1DrMb7UXJYLLHYQg4qb1lz6SYzziQk

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Optimization, theory & practice. Energy-aware AI, nerual-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