Shunyu Yao

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🎓 Education

Southern University of Science and Technology (SUSTech), China   Sep. 2020 – Jun. 2023

Master student in Electronics Science and Technology (EE)
GPA: 3.33/4
Major courses: Advanced algorithm, advanced artificial intelligence
Interesting: Deep learning, reinforcement learning, combinatorial optimization, multi-objective optimization.

Southern University of Science and Technology (SUSTech), China   Sep. 2016 – Jun. 2020

B.S. in Computer Science (CS)
GPA: 3.5/4, Postgraduate recommendation.
Major courses: Deep learning, probability theory, discrete mathematics, artificial intelligence
Interesting: Millimeter wave radar, deep learning.

👥 Experience

Intern: Real-time Water Surface Object Detection   Jan. 2022 – Jun. 2023

The real-time objective detection algorithm is designed based on multi-task learning and transfer learning.

Teacher Assistant: System Design and Management   Feb. 2021 – Jun. 2021

Teaching the discrete optimization algorithms: dynamic programming, simplex, branch and bound, etc.

Reviewer: Memetic Computing   Jun. 2021-

📖 Research

[1] Zhenkun Wang, Qingfu Zhang, Yew-Soon Ong, **Shunyu Yao**, Haitao Liu, and Jianping Luo. **Choose appropriate subproblems for collaborative modeling in expensive multiobjective optimization**. *IEEE Transactions on Cybernetics*, 2021. First Student Author.

[2] Zhenkun Wang*, **Shunyu Yao***, Genghui Li, and Qingfu Zhang.**Multi-objective Combinatorial Optimization Using A Single Deep Reinforcement Learning Model**. *IEEE Transactions on Cybernetics*, Unber review. *Equal contribution.

[3] **Shunyu Yao**, Xi Lin, Zhenkun Wang, and Qingfu Zhang. **Data-efficient Supervised Learning is Powerful for Neural Combinatorial Optimization**. *Association for the Advancement of Artificial Intelligence*, Unber review.

[4] Zhi Zheng*, **Shunyu Yao***, Genghui Li, and Zhenkun Wang.**Decomposition-based Pareto Improver: A Population-based Reinforcement Learning Method for Multi-objective Combinatorial Optimization**. Preprint. *Equal contribution.

⚙ Skills

- Programming Languages: Python, Matlab, C++, Java
- Data Science: PyTorch, TensorFlow, Keras, Pandas, Scikit-learn

♡ Honors and Awards

Graduate Scholarship Award	Sep. 2020 – Jun. 2022
Freshman Scholarship Excelence Award	Jun. 2016

ℹ Miscellaneous

- Languages: Mandarin (Native), English (TOEFL iBT: 105, R: 28, L:30, S: 23, W: 24)