Yang Shan

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github.com/seanys

PERSONAL SUMMARY

Senior student from MS&E of Tongji University who has a well academic background in operations research and is good at coding&mathematics. Interested in IE&OR and willing to be devoted to this field for the next decades.

EDUCATION

Tongji University   *Sep. 2017 - July 2021*
Bachelor of Management in Management Information System   *Shanghai*
- GPA [2018 Fall - 2020Spring]: 90.86/100.00
- Courses: Operations Research, Operations Management [Assignment&Notes], Data Structure and Algorithm [Code], Decision Simulation [Code], Modern Logistics Management, Operations System, Database Technology and Application, Applied Statistics, etc.
- Audited Graduate Course: Optimization Theory [Code].

Fudan University   *Sep. 2017 - July 2019*
Minor Bachelor Degree of Law   *Shanghai*
- Courses: Constitution, Civil Law, Contract Law, Commercial Law etc.

RESEARCH EXPERIENCE

2D Irregular Packing Problem   *Undergraduate Research*
- Use modified penetration depth and guided search to solve nesting problem [Code&Intro]: Our results are close or even better than the best results on benchmarks with guided global search.
- Learn to pack with reinforcement learning [Code&Intro]: We replaced the heuristic criteria for nesting problem with RL methodology and have gotten better results on some data sets.
- Algorithms for Nesting Problem [Code]: Realize classic algorithms for the packing problem with Python&C++ such as NFP, GA, TOPOS, Fast Neighborhood Search, Guided Cuckoo Search, etc.

Supply Chain&Simulation   *Undergraduate Courses Design*
- Use anyLogistix to simulate flexible production networks [Work&Intro]: Build three types of supply chains for last-mile delivery in Singapore and compare their service levels. Advisor: Wang Yunfeng
- Simulate airplane boarding process [Code&Intro]: Write a literature review on this topic and simulate a simple boarding process with Python. Advisor: Prof. Hu Zhaolin
- Aircraft Maintenance Assistant [Code&Intro]: Project for Singapore Airlines APP Challenge 2019. Advisor: Prof. Liang Zhe

HONOURS

- Tongji Innovation and Entrepreneurship Scholarship. *The only undergraduate student*.
- "Internet +" College Students Innovation and Entrepreneurship Competition, Shanghai Second Prize. *The only undergraduate principal in our school who won this level of prize*.

SKILLS&LANGUAGE

- *Language*: Familiar with English, score of TOEFL&GRE will be updated soon
- *Coding*: Python and Libraries in common use, C++, Web Development
- *Software*: Skilled in PowerPoint, familiar with Excel and Latex
- *Soft Skill*: Leadership, Presentation, Communication