

Yang Wenjie

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Education

National University of Singapore

Ph.D. in Operations Research and Analytics

Aug. 2023 – Present

Singapore

National University of Singapore

Msc. in Industrial Systems Engineering and Management

Aug. 2022 – Jul. 2023

Singapore

Sichuan University

B.Eng in Industrial Engineering

Sep. 2018 – Jun. 2022

Chengdu, China

Research Experience

Integrated Planning of Emergency Supply and Victim Evacuation

Mar. 2022 – Sep. 2023

Advised by Assoc. Prof. Qingyi Wang

Sichuan, China

- Proposed a stochastic programming model to deploy emergency facilities, pre-stock and distribute emergency supplies, and manage self-evacuate victims integrally before and after disasters.
- **Wenjie Yang, Aakil M. Caunhye, Qingyi Wang***. *A stochastic programming model for integrated planning of emergency supply pre-positioning and victim evacuation. (Under Review)*

Emergency Supply Pre-Positioning Optimization in Sichuan Province

Nov. 2021 – Jun. 2022

Advised by Assoc. Prof. Qingyi Wang

Sichuan, China

- Proposed a multi-objective emergency supply planning model under the goals of maximizing both emergency supply delivering efficiency and equity, and conducted a case study based on Sichuan Province emergency supplies planning.
- Made visual presentation on the *10th International Federation of Automatic Control Conference (IFAC MIM 2022)*.

Design of Intelligent Scheduling System for Flow Production of CNEG

Jul. 2020 – Dec. 2020

Advised by Assoc. Prof. Jianguo Zheng

Beijing, China

- Employed 5W1H, fishbone diagram and operation analysis to identify problems in the manufacturing company.
- Developed a mathematical model of production scheduling based on the production data of the enterprise, and applied the adaptive genetic algorithm to solve the optimal scheduling scheme.
- Award: 1st Prize in *The 15th Dongfeng Nissan Cup "Tsinghua IE Sword" National Industrial Engineering Case Study Competition*.

Skills

Technical Skills: Python, Gurobi, L^AT_EX, Simio

Language: TOEFL: 103; GRE: 330