WEILIANG (LEON) LIU

Industrial Systems Engineering and Management, National University of Singapore, Singapore
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Last Updated: May, 2023

EDUCATION

National University of Singapore (NUS)

2020 - 2024 (Expected)

Ph.D., Industrial Systems Engineering & Management Advisors: Loon Ching Tang and Zhisheng Ye

Shanghai Jiao Tong University

2016 - 2020

B.E., Industrial Engineering and Management

RESEARCH INTERESTS

Stochastic modeling, diffusion approximation, optimal control, robust optimization Service operations, healthcare operations, smart city operations

COMPLETED PAPERS

[1] Expanding Service Capabilities Through an On-Demand Workforce

Sun, X. & Liu, W.

Major revision at Operations Research

[2] Energy-Aware and Delay-Sensitive Management of a Drone Delivery System

Liu, W. & Sun, X.

Manufacturing & Service Operations Management (2022) Vol. 24, No. 3, pp. 1294-1310

[3] Robust Data-Driven Design of a Smart Cardiac Arrest System

Liu, W., Sun, Q., Tang, L. & Ye, Z.

Under review

[4] Location-Allocation of Emergency Service Systems in Light Traffic: Application to Lift-Trap Rescue

Wang, X., Liu, W., Tang, L. & Ye, Z.

Reject and resubmit at Management Science

[5] Modeling and Optimization for Emergency Medical Services Network

Liu, R., Liu, W., Liu, Y., Pan, E. & Xie, X.

IEEE Transactions on Automation Science and Engineering (2021) Vol. 19, Issue 4, pp. 3520 - 3535

WORK IN PROGRESS

[6] *Optimal Alert of Community Responders* In Preparation.

OTHER RESEARCH EXPERIENCE

University of Toronto

August - December, 2023 (Expected)

Visiting Graduate Student, Mechanical & Industrial Engineering

Supervisor: Timothy C. Y. Chan

University of Florida

June - September, 2019

Research Intern, Industrial & Systems Engineering

Supervisor: Xu Sun

TEACHING EXPERIENCE

IE4213/EE4802: Learning from Data (Undergraduate), NUS 2020, 2021, 2022

IE5005: Data Analytics for Industrial Engineers (Master), NUS

SELECTED AWARDS

Chinese Government Award for Outstanding Students Abroad (6,000 USD)

President's Graduate Fellowship
Hong Yi Scholarship (3,500 USD)
2019

2019

Overseas Research Excellence Scholarship (1,000 USD)

COMPUTER SKILLS

Programming Language C++, Python

Software Gurobi, MATLAB, LaTex

PERSONAL

Languages English (fluent), Mandarin (native), Cantonese (native)

Interests Ultimate frisbee, traveling

REFERENCES

Zhisheng Ye Xu Sun Loon Ching Tang

Associate professor Assistant professor Professor

National University of Singapore University of Florida National University of Singapore

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