Lan Peng, Ph.D.

Assistant Professor
School of Management
Shanghai University
Baoshan, Shanghai, China

lanpeng@shu.edu.cn
+86 15727393211
github.com/isaac0821

EDUCATION

Ph.D. Industrial Engineering, Operations Research
Department of Industrial and Systems Engineering, University at Buffalo, SUNY
2018 - 2023

M.S. Industrial Engineering, Operations Research,
Department of Industrial and Systems Engineering, University at Buffalo, SUNY
2018 - 2020

M.S. Control Science and Engineering,
School of Reliability and Systems Engineering, Beihang University,
2015 - 2018

B.S. Quality and Reliability Engineering,
School of Reliability and Systems Engineering, Beihang University,
2011 - 2015

RESEARCH AREAS

Vehicle Routing Problem: Drone Delivery, Dynamic Vehicle Routing Problem

PUBLICATIONS

† Advisor

Journal Articles

J2 Courtney J. Burris, Alexander Nikolaev, Himangshu Paul, and **Lan Peng**
"Create-Rank-Compete Crowdlearning." *Advances in Engineering Education*, to appear. 2023.

J1 **Lan Peng**, and Chase Murray†. "VeRoViz: A vehicle routing visualization toolkit."
INFORMS Journal on Computing, published online. 2022.
https://doi.org/10.1287/ijoc.2022.1159

Manuscripts In Preparation

Lan Peng, and Chase Murray†. "Parallel Drone Scheduling Traveling Salesman Problem with Weather Impacts." *To be submitted.* Available at SSRN: https://ssrn.com/abstract=4254262

Lan Peng, and Chase Murray†. "The Dynamic Pickup-and-Delivery Bundling Problem." *In preparation.*

Conference Proceedings

C2 **Lan Peng**, Ma, Lin†., and Naichao, Wang."A fleet-level selective maintenance model for long-distance highway transportation considering stochastic repair quality." *2017 2nd International Conference on System Reliability and Safety (ICSRS)* (EI). Milan, Italy. 2017. https://ieeexplore.ieee.org/abstract/document/8272847

C1 **Lan Peng**, Liu, Baocheng., Ma, Lin†., Naichao, Wang. and Liu, Qiannan."Mixed arithmetic reduction model for two-unit system maintenance" *2017 Second International Conference on Reliability Systems Engineering (ICRSE)* (EI). Beijing, China. 2017. https://ieeexplore.ieee.org/abstract/document/8030798

DISSERTATIONS

2023 Ph.D. Thesis. "Emerging Topics in Coordinated Vehicle Routing Problem: Application from Last-Mile Drone Delivery to Nation-wide Bulk Item Shipping"

2018 Master Thesis. "Maintenance policy for multi-unit system considering negative repair performance" (In Chinese)

PRESENTATION

Conference Presentation

4. **Lan Peng**, and Chase Murray†. "Parallel Drone Scheduling Traveling Salesman Problem Considering Winds and Rains" *INFORMS Annual Meeting*. Indianapolis, Oct. 2023.

3. **Lan Peng**, and Chase Murray†. "Parallel Drone Scheduling Traveling Salesman Problem with Weather Impacts." *INFORMS Annual Meeting*. Virtual, Nov. 2021.

2. **Lan Peng**, and Chase Murray†. "Optimization Of Pick-up And Delivery Orders Bundling Problem." *INFORMS Annual Meeting*. Virtual, Nov. 2020.

1. Chase Murray†, and **Lan Peng**. "A Vehicle Routing Visualization Toolkit for Drones." *INFORMS Annual Meeting*. Seattle, WA, U.S., Oct. 2019.

TEACHING EXPERIENCE

Teaching Assistant, University at Buffalo

Fall 2018	IE 320 Engineering Economy
Spring 2019	IE 374 System Modeling and Operations Research II
Spring 2020	IE 411/511 Social Network Behavior Models
Fall 2020	IE 550/STL 502 Introduction to Operations Research
Spring 2021	IE 101 Introduction to Industrial Engineering
Spring 2021	IE 691 Research Seminar
Fall 2021	IE 550/STL 502 Introduction to Operations Research
Fall 2021	IE 677 Network Optimization
Spring 2022	IE 421/521 Sustainable Manufacturing

Spring 2022	IE 555 Programming for Analytics
Fall 2022	IE 504 Facilities Design

MEMBERSHIPS

INFORMS Student Member
Served as Vice President for the University at Buffalo Student Chapter from 2020 - 2022

REVIEWER

Transportation Research Part B: Methodological

SKILLS

Language: Chinese (Native), English (Working proficiency)

Programming: Python, C#, JavaScript, HTML/CSS, SQL

Software: Gurobi, CPLEX, LaTeX, PostgreSQL

Updated May 2023