Rui Wang

No. 135, Xingang Xi Road, Guangzhou, 510275, P. R. China

Phone: (86)18321071272 **Email: wangr283@mail2.sysu.edu.cn**

Education

Ph.D. Management Science and Engineering, 2021/09-present

School of Business, Sun Yat-Sen University, Guangzhou, China.

- ***Main Course:*** *Game Theory and Operations Management, Operations Modeling and Supply Chain Management, Deterministic Optimization, Stochastic Dynamic Programming, Advanced Econometrics.*

B.S. Management with a Specialization in Logistics Management, 2017/09-2021/06

School of Economics, Ocean University of China, Qingdao, China.

- ***Main Course:*** *Calculus, Linear Algebra, Probability, Operations Research, Statistics, Econometrics, Logistics Management, Supply Chain Management.*
- ✦ Outstanding Graduates.

Research Interests

Platform Operations, Healthcare Operations Management.

Working Paper

"Competition or Cooperation: Strategy Analysis for a Social Commerce Platform," Haiqing Song, Rui Wang, Yanli Tang*, Under review at **European Journal of Operational Research**

Research Experience

Research on *Profit Strategies of Online Healthcare Platform (OHP)* 2023/08-present

- Consider impacts of different profit strategies on a medical ecosystem consisting of a physical hospital, an online healthcare platform (OHP), such as Haodf, a specialist, and patients.
- Develop a game-theoretic queueing model for two profit strategies adopted by online healthcare platforms.

Research on *Competition or Cooperation: Strategy Analysis for a Social Commerce Platform* 2022/09-2023/07

- Consider a market where the same products are sold to consumers via two different platforms that compete on price: one traditional (such as Taobao) and the other social-commerce-based (such as RED).
- Establish a game-theoretic model including two operational strategies for a social commerce platform.
- Compare the impact of different operational strategies on the social commerce platform, traditional platform, consumers, and social welfare.

Research on *Vehicle Routing Problem with Drones Considering Time Window Constraints* 2020/05-2021/05

- Consider a vehicle routing problem with drones considering time window constraints.
- Design a heuristic genetic algorithm that first optimize vehicle routes and then allocate drone access nodes.

Conference Presentations

2. *Competition or Cooperation: Strategy Analysis for a Social Commerce Platform.* 2023 POMS International Conference in China, Hangzhou, China, 2023.

1. *Competition or Cooperation: Strategy Analysis for a Social Commerce Platform.* Operations Research Society of China (ORSC) 16th Annual Conference, Changsha, China, 2023.

Honors and Awards

- National Scholarship (2018-2019, 2019-2020)

Participation in Overseas Programs

Innovation Management Programme, Department of Industrial System Engineering and Management, National University Singapore, 2019/2.