

Xiaodong WANG

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EDUCATION

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- Singapore Management University, Lee Kong Chian School of Business, Singapore** Aug. 2020-Present
- *Ph.D. student, Ph.D. program in Business (Operations Management)*
- Tongji University, School of Economics and Management, China** Sep. 2017-Apr. 2020
- *Master in Management Science and Engineering*
 - GPA: 4.4/5.0
- Nanjing University of Aeronautics & Astronautics, College of Economics and Management, China** Sep. 2013-Jun. 2017
- *Bachelor in Industrial Engineering*

TRAINING

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- Probability and statistics
 - Operations research
 - Coding: MATLAB, Python, C++

RESEARCH EXPERIENCES

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- **Bi-objective production scheduling with energy consideration** **Oct. 2017-Jan. 2019**
 - Analyzed the working flow of real-world gate assignment procedure, clustered related gates according to their distinct characteristics with realistic operational data, visualized these results.
 - Constructed and validated the multi-objective airport gate assignment MIP model with MATLAB/C++ and CPLEX.
 - Designed and implemented a rule-based algorithm and an NSGA-II-based evolutionary algorithm with rolling horizon approach in MATLAB, facilitated the airport gate scheduling under large-scale scenario.
 - **Real-world hybrid flow-shop scheduling problem of Unilever Corp. Ltd/Hefei** **Feb. 2018-Oct. 2018**
 - Collected related data in the field research in Unilever Corp. Ltd in Hefei, developed the mathematical formulation of this two-stage no-wait hybrid flow-shop scheduling problem.
 - Designed the model-based heuristic method and problem-tailored genetic algorithm and tabu search algorithm.
 - **Multi-objective airport gate assignment in Guangzhou Baiyun International Airport** **Oct. 2016-Jun. 2017**
 - Clarified research streams, found the research gap, conducted literature review, constructed bi-objective MIP formulations, and implemented exact Epsilon-constraint method with Python and GUROBI.
 - Developed problem-tailored constructive heuristic and bi-objective meta-heuristic algorithms, i.e., NSGA-II, Tabu Search and Ant Colony Optimization algorithm to tackle industrial-scale instances.
 - Conducted extensive computational experiments and real-world case study, illustrated the performance of above algorithms.

HONORS AND AWARDS

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- 2019 Academic Pioneer Award in Tongji University
 - 2019, 2018 China National Graduate Scholarship
 - 2016 Excellent Graduation Project in NUAA