WENCANG BAO

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Top Ph.D. student and group leader majoring in industrial engineering and mathematics. Quick learner with superb critical thinking, problem-solving, communicating, and partnering skills.

Education

Georgia Institute of Technology Atlanta, GA

Ph.D. Industrial Engineering Exp. 12/2023

M.S. Industrial Engineering 12/2019

- GPA: 4.00/4.00

Beihang University Beijing, China

B.S. Industrial Engineering (Engineering Management) 6/2018

B.S. Mathematics

- GPA: 3.78/4.00

Skills

Programming Language: Python, R, SQL, Matlab, C, Java

Software: Gurobi, AutoCAD, SPSS, MS Office, Simio

Work Experiences

Graduate Research Assistant in Physical Internet Center

Robotic Logistics Hub Layout Design 5/2020 - Present

- Aiming to accelerate inter-city deliveries with guaranteed service level and lower cost.
- Built a conceptual design of loading/unloading area and shuffle center via queue system and mean value analysis.

Kitting Cell Design of Assembly Line 1/2020 - Present

- Aiming to determine the configuration of the kitting cell and the storage type of parts.
- Developed a mathematical programming model considering replenishment, space and picking costs, combined with max-min heuristic method to speed up solving process.

Research Associate

Inventory Control in Good Samaritan in Atlanta 4/2019-10/2020

- Led a group of 3 to build an information system for dispensary.
- Used patient-based prediction model to estimate the demand of medicines, combined with reorder point method to control the inventory at dispensary, reduced the cost of inventory by 74.2%.

Depot Location Problem of Electric Vehicle Sharing System 11/2016-4/2018

- Aimed to determine the layout of electronic carsharing stations to optimize the profit.
- Designed a weighted Voronoi model combined with a mixed integer programming, increased profit by 11.35% with higher stability and lower computational overhead in given instance.
- Wencang Bao, Qiong Tian, “Depot Location Problem of Electric Vehicle Sharing System: A Continuum Approximation Method”, Journal of Transportation Systems Engineering and Information Technology Dec 2018, Vol. 18, Sup.1-0021-09 (Chinese Version).

Honors and Awards

Outstanding Thesis Award 2018

- For the best thesis in each school every year

National Scholarship 2018

- Highest academic award for the top 1% students in China