Penghui Guo

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Education

Ph.D. Student, Management Science and Engineering — Apr. 2019 - present
Nanjing University of Aeronautics and Astronautics, Nanjing, China
- College of Economics and Management
- Concentrations: Logistics and Supply Chain Management

M.S., Management Science and Engineering — Apr. 2019
Nanjing University of Aeronautics and Astronautics, Nanjing, China
- College of Economics and Management
- Concentrations: Disaster Operations Management
- Thesis: *Models and Algorithms for Post Disaster Rescue Route Optimization*

B.S., Industrial Engineering — Jul. 2015
Henan Polytechnic University, Jiaozuo, China
- School of Energy Science and Engineering

Visiting Student, Industrial Engineering — Sep. 2019 - Dec. 2019
Texas State University, San Marcos, U.S.
- UTIL Lab at Ingram School of Engineering

Research Interests

Logistics and Supply Chain Management, Disaster Operations Management, Optimization Modeling and Algorithms.

Research Experience

Project Supported by Foundation of Graduate Innovation Center in NUAA — 2017
- Name of the Project: *Integrated Optimization for Large-scale Natural Disaster Emergency Rescue Location-Routing-Allocation Problem*

Publications

[1] **Guo,P.,** Zhu,J.*, Wang,H.(2019). Location-routing-allocation Problem with Consolidated Shipping of Heterogeneous Relief Supplies in Post-disaster Rescue. *Systems Engineering - Theory & Practice,* 39(9),2345-2360. (Chinese journal)

[2] **Guo,P.,** Zhu,J.*, Wang,H.(2018). Multi-location Emergency Rescue Route Optimization under the Condition of Natural Disaster Considering Safety and Time Cost. *Systems Engineering,* 36(6),62-70. (Chinese journal)
(represents the corresponding author)*

Honors and Awards

- 2nd Price of the 2nd National Innovation Copetition of Industrial Engineering and Lean Management — May 2019
  - Name of the Project: *Models and Algorithms for Emergency Rescue Location-Routing Optimization with Stochastic Demand*
- Outstanding Postgraduate Student of Nanjing University of Aeronautics and Astronautics — Jul. 2019
- 3rd Price of the 15th China Post-Graduate Mathematical Contest in Modeling — Dec. 2018
- National Scholarship for Graduate Students by Ministry of Education of the P.R.C — Oct. 2018
- 3rd Price of the 2018 NUAA Post-Graduate Mathematical Contest

in Modeling Jun. 2018

• 3rd Price of the 14th China Post-Graduate Mathematical Contest in Modeling Dec. 2017

Open Source Projects

VRP2E https://github.com/phguo/VRP2E Jan. 2018

- A coevolutionary-algorithm solver for multi-objective two-echelon vehicle routing problems.