JEONGWON PARK

📞(+82)-10-5059-9175 ✉ jeongwon.park@pusan.ac.kr 🔗 https://parkgarden.github.io

📍 29, Geumsaem-ro 229beon-gil, Geumjeong-gu, Busan 46236, Republic of Korea

EDUCATION

Pusan National University, Republic of Korea　　　　　　　　　　*Mar 2022 - Aug 2023 (expc.)*

M.S., Department of Industrial engineering
- Major in Industrial Data Science and Engineering
- Advisor: Soondo Hong
- Provisional thesis title: "Order picking optimization to mitigate Temporal Workload imbalance under Worker-centric perspective"

Pusan National University, Republic of Korea　　　　　　　　　　　　　*Mar 2015 - Aug 2022*

B.S. (Magna Cum Laude), Department of Industrial engineering
- Second Major: Big Data Interdepartmental Major

RESEARCH INTEREST

- **Methodologies**
  Simulation, Machine learning, Meta heuristics, Mixed integer programming

- **Applications**
  Material handling, Manufacturing and Logistics systems, Supply chain management, Scheduling

PUBLICATIONS

Papers under review

1. **J. Park**, P. Joatiko, C. Park, S. Hong, "Gaussian process-based storage location assignments with risk assessments for progressive zone picking systems", under review in *European Journal of Operational Research*, (2022)

Papers in-preparation

1. **J. Park**, H.Y. Fibrianto, S. Hong, "Order batching and sequencing for 2-dimensional workload balancing in sequential zone order picking system", To be submitted to *IISE transactions*

Peer-reviewed conference articles and Book chapters

1. **J. Park**, P. Joatiko, C. Park, S. Hong, "Average flow time estimation and its application for storage relocation in an order picking system", *IFIP International Conference on Advances in Production Management Systems*, 663, 60-66, (2022)

2. **J. Park**, H.Y. Fibrianto, S. Hong, "Order Batching and sequencing in a sequential zone order picking system with consideration of workload balance", In K. Ellis, W. Ferrell, J. Knapp (Eds.), *IISE Annual Conference and Expo 2022*, Institute of Industrial and Systems Engineers, IISE, (2022)

PRESENTATIONS

1. "Storage assignment based on Gaussian Process surrogate modeling", Data-driven optimization joint workshop, August 2-3, 2022, POSTECH, Pohang, Korea

2. "AS/RS material handling system optimization", LG CNS Entrue exchange meeting, August 19, 2022, Pusan National University, Busan, Korea

PATENTS

1. S. Hong, **J. Park**, J. Jeong, J.Lee, M. Lim, Y. Choi, 2021, "Apparatus for foresight analysis of passenger usage for selecting the optimal stop station for express trains", Korean Patent Application 10-2021-0020132, filed February 15 2021, Patent Pending

2. S. Hong, **J. Park**, J. Jeong, C. Choi, 2022, "Apparatus for foresight analysis of passenger congestion in the platform for setting the optimal operating cycle of express trains", Korean Patent Application 10-2022-0015214, filed February 7 2022, Patent Pending

AWARD

- PNU-Fellowship, Pusan National University   *2022*
- Travel Grant for IISE conference presentation, Pusan National University   *2022*
- Third Prize, Capstone design competition, Pusan National University   *2021*
- Third Prize, Student project competition, The Korean Society of SCM   *2021*
- First Prize, Capstone design competition, Pusan National University   *2020*

SCHOLARSHIP & FUNDING

- Research Assistant Scholarship, Pusan National University   *2022*
- Brain Korea Scholarship, Pusan National University   *2022*
- Graduate student Scholarship, Pusan National University   *2022*
- SW student scholarship, Software education center, Pusan National University   *2021*
- Undergraduate student Scholarship, Pusan National University   *2021, 2020, 2018, 2016*
- National Science and Engineering Undergraduate Scholarship, Korea Student Aid Foundation   *2015*

SKILLS & INTERESTS

Programming:	Python, R-studio, C++, HTML
Software & Tools:	Plant Simulation, CPLEX ,LaTex
Interests:	Basketball (PNU MAX basketball club leader), Tennis

PROJECT

1. **Advancement of Resource Circulation (Remanufacturing) industry**
   (Funded by Korea Energy Technology Evaluation and Planning, Sep. 2022 - Dec. 2022)
   - Scheduling automotive parts manufacturing processes for sustainability and productivity
   - My role: mathematical modeling, data curation, experimental design, simulation validation

2. **Human action classification with Deep Learning approach**
   (Industry-Academia Cooperation Project, Aug. 2020 - Dec. 2020)
   - To develop python-based deep learning framework for classifying human action from video data
   - My role: team leader, presenter, writing documents, model training and evaluation

REFERENCE

Prof. Dr. Soondo Hong
Associate Professor, Dept. of Industrial Engineering, Pusan National University, Busan, Korea
Office phone: (+82)-51-510-2331, Email: soondo.hong@pusan.ac.kr

Prof. Dr. Chiwoo Park
Associate Professor, Dept. of Industrial & Manufacturing Engineering, Florida State University, FL, USA
Phone: (+1)850-410-6457, Email: chiwoo.park@eng.famu.fsu.edu