Yoonsik Jung

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https://yoonsik-jung-opt.github.io/

EDUCATION

Mar. 2021 ~ Present	Korea University School of Industrial Management Engineering Advisor: Hong Seo Ryoo	Seoul, Korea
	Ph.D. Student	
Mar. 2014 ~ Feb. 2020	Dongguk University Department of Industrial and Systems Engineering B.S. in Industrial and Systems Engineering	Seoul, Korea

RESEARCH INTERESTS

- Operations research
- Mathematical optimization
- Smart manufacturing

CONFERENCE PAPERS

 Dongwoo Kang, Sunung Kim, <u>Yoonsik Jung</u>, Hong Seo Ryoo, "Generating Interpretable Patterns for Biomedical Image Classification", 2021 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Virtual (Dec. 2021)

CONFERENCES

- Yoonsik Jung, Hong Seo Ryoo, "Bipartite Graph for Boolean Pattern Recognition", 2023
 INFORMS Annual Meeting, Pheonix, AZ, United States (Oct. 2023) Oral
- Yoonsik Jung, Jeongin Koo, "A Scheduling Algorithm for Reducing Long-Term Work-In-Process Inventory in Battery Formation Process", The 26th Winter Conference of Society for Computational Design and Engineering, Jeju, Korea(2020)
- Yoonsik Jung, Mingi Kang, Jeongin Koo, "A Study on the Tool Wear Estimation Using Discrete Wavelet Transformation and LSTM Networks", KSMPE 2020 Spring Conference, Pyungchang, Korea(2020)
- 4. Sun Kim, Hanjun Kwon, <u>Yoonsik Jung</u>, Jeongin Koo, "Design and Implementation of Machining Process Data preprocessing System", KSMTE Spring Conference 2020, Pyungchang, Korea(2020)

- 5. <u>Yoonsik Jung</u>, Jeongin Koo, "A Development on the Scheduling Algorithm for Automated Logistics in Battery Formation Production", The 25th Winter Conference of Society for Computational Design and Engineering, Pyungchang, Korea(2020)
- 6. Jeongin Koo, <u>Yoonsik Jung</u>, Chanyong Kim, Dongil Kim, "A Study on the Toolwear Estimation Model based on the Machine Learning", KSPE 2019 Fall Conference, Changwon, Korea(2019)

RESEARCH EXPERIENCES

 Researcher at Manufacturing Process Platform R&D Department, Korea Institute of Industrial Technology, Korea (Jul. 2019 ~ Dec. 2020)

AWARDS AND HONORS

- 3rd Prize, Matlab AI Student Challenge, The MahtWorks Korea, Korea (Oct. 2021)
- Award of Merit, Industrial Engineering Project Competition, Korean Institute of Industrial Engineers, Korea (Nov. 2019)
- Award of Distinction, Computer Simulation Competition, The Korea Society for Simulation, Korea (Apr. 2019)
- Award of Merit, Ergonomics Capstone Design Award, Ergonomic Society of Korea, Korea (Nov. 2018)

PROJECTS

- Design of a Life Cycle Management Model for the Advancement of Equipment Parts Management in G-EMS, Samsung Electronics, Korea (Sep. 2023 ~ May. 2024)
- Simulation and Optimization of Logistics Operation of Big Data Base Manufacturing Line, Ministry of Trade, Industry and Energy, Korea (Jul. 2019 ~ Dec. 2020)
- Machinability Diagnosis and Control System based on Deep Learning for Selfoptimized
 Manufacturing System, Korea Institute of Industrial Technology, Korea (Jul. 2019 ~ Dec. 2020)
- Development of manufacturing big data collection and analytics general purpose platform, Ministry of Trade, Industry and Energy, Korea (Mar. 2020 ~ Aug. 2020)
- A Development on the Integrated Management System of Small and Medium Retail Stores for Service Productivity Innovation, Ministry of Trade, Industry and Energy, Korea (Aug. 2020 ~ Dec. 2020)

TEACHING EXPERIENCES

Teaching Assistant(TA)

- Operations Research I, II (Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024)
- Production Planning (Spring 2021)
- Introduction to Programming (Winter 2018, Spring 2019)

SKILLS AND TECHNIQUES

- Programming Languages: C++, Python, Java, R, SQL, Shell Script
- Optimization Tools: Gurobi, Ortools