

Wonkeun Jo

PH.D. STUDENT OF THE CHUNGNAM NATIONAL UNIVERSITY

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Education

Chungnam National University

PH.D. IN COMPUTER SCIENCE & ENGINEERING

- Received funding that was supported by Basic Science Research Program through the National Research Foundation of Korea (NRF) by the Ministry of Education.
- Received the BK-21 scholarship.

Daejeon, S.Korea

Mar. 2021 - Present

Chungnam National University

M.S. IN COMPUTER SCIENCE & ENGINEERING

- Received the BK-21 scholarship

Daejeon, S.Korea

Mar. 2019 - Feb. 2021

Chungnam National University

B.S. IN PHYSICS

Daejeon, S.Korea

Mar. 2011 - Aug. 2018

Projects

Industrials

- 공구 상태 분류 모델 및 가공조건/장비 변화 적응형 학습방법론 개발
- 딥러닝 기반 절삭력 유사도 지표 및 공구 수명 예측 방법론 개발
- 가공공정 데이터 기반 변화 및 외부 데이터 적응형 머신러닝 학습 방법론 개발

2020 - 2022

Korea Institute of Industrial Technology

Health Care

- 심박 데이터를 기반으로 한 혈압예측 인공지능 설계를 통한 기업지원

2019 - 2020

Korea Testing Laboratory

Paper

OBGAN: minority oversampling near borderline with generative adversarial networks

EXPERT SYSTEMS WITH APPLICATIONS, VOL 197, 1 (SCIE, IF=8.665, Q1, TOP 10%)

2022

Wonkeun Jo, and Dongil Kim

Solar Event Detection Using Deep-Learning-Based Object Detection Methods

SOLAR PHYSICS, VOL. 296, 160 (SCIE, IF=2.961, Q2)

2021

Ji-Hye Baek, Sujin Kim, Seonghwan Choi,
Jongyeob Park, Jihun Kim, **Wonkeun Jo**,
& Dongil Kim

International conference

The explainable neural networks for nowcasting

INFORMS ANNUAL MEETING 2022

Oct. 2022

Wonkeun Jo, and Dongil Kim

Prediction of tool wear based on machine learning for cutting force

INFORMS ANNUAL MEETING 2022

Oct. 2022

Hoguen Koo, Soomin Lee, **Wonkeun Jo**,
Hyein Kim, Jeongin Koo, Juheon Kwak,
and Dongil Kim

Machine learning-based sleep quality prediction with body signal data

INFORMS ANNUAL MEETING 2022

Oct. 2022

Hyojeong Kang, Juheon Kwak,
Wonkeun Jo, and Dongil Kim

Cutting force similarity calculation in milling process using siamese LSTM structure

Feb. 2022

THE 11TH INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY AND MANAGEMENT (ICITM)

Juheon Kwak, **Wonkeun Jo**, Soomin Lee,
Hyein Kim, Jeongin Koo, and Dongil Kim

Blood pressure prediction based on deep learning with PPG and ECG signal data

Oct. 2021

INFORMS ANNUAL MEETING 2021

Junwon Park, **Wonkeun Jo**, Hogeun
Koo, Hyungtaik Oh, Kyhyup Oh, and
Dongil Kim

Deep learning-based cutting force prediction with machining process monitoring data

Oct. 2021

INFORMS ANNUAL MEETING 2021

Soomin Lee, **Wonkeun Jo**, Dongil Kim,
Hyein Kim, and Jeongin Koo

Improvement of class imbalanced classification performance with generative adversarial network

Nov. 2020

INFORMS ANNUAL MEETING 2020

Wonkuen Jo, Dongil Kim

Domestic conference

특징 추출과 딥러닝을 활용한 항원 결정기 예측

Nov. 2022

KOREAN DATABASE CONFERENCE 2022

Jungmin Ha, **Wonkeun Jo**, and
Young-Kuk Kim

- Both authors equally contributed.

Neural additive models for nowcasting

Nov. 2022

KOREA DATA MINING SOCIETY CONFERENCE 2022

Wonkeun Jo, and Dongil Kim

Sleep Quality Prediction with E4 Wireless Dataset based on Machine Learning

Aug. 2022

KOREA COMPUTER CONGRESS 2022 (KCC2022)

Hyojeong Kang, Juheon Kwak,
Wonkeun Jo, and Dongil Kim

Interpretable Neural Network for Time Series Nowcasting

Aug. 2022

KOREA COMPUTER CONGRESS 2022 (KCC2022)

Wonkeun Jo, and Dongil Kim

Recommendation System Based on Graph Collaborative Filtering Using Explicit Information

Dec. 2021

KOREA SOFTWARE CONGRESS 2021 (KSC2021)

Hyungtaik Oh, **Wonkeun Jo**, and Dongil
Kim

Hybrid Sequential Recommendation System Using k-NN and Graph Neural Networks

Dec. 2021

KOREA SOFTWARE CONGRESS 2021 (KSC2021)

Hogeun Koo, Soomin Lee, **Wonkeun Jo**,
and Dongil Kim

Milling tool wear prediction based on sensor and time-series feature extraction

Dec. 2021

KOREA SOFTWARE CONGRESS 2021 (KSC2021)

Wonkeun Jo, Hogeun Koo, Hyein Kim,
Jeongin Koo, and Dongil Kim

Methodology of Cutting Force Similarity Calculation in Milling Process using Siamese LSTM Structure

Dec. 2021

KOREA SOFTWARE CONGRESS 2021 (KSC2021)

Juheon Kwak, **Wonkeun Jo**, Soomin Lee,
Hyein Kim, Jeongin Koo, and Dongil Kim

Deep learning-based cutting force prediction with machining process monitoring data

Jun. 2021

KOREA COMPUTER CONGRESS 2021 (KCC2021)

Soomin Lee, **Wonkeun Jo**, Hyein Kim,
Jeongin Koo, and Dongil Kim

Blood pressure prediction based on deep learning with PPG and ECG

Jun. 2021

KOREA COMPUTER CONGRESS 2021 (KCC2021)

Junwon Park, **Wonkeun Jo**, Kyhyup Oh,
and Dongil Kim

Machine learning-based elderly depression prediction with pattern-of-life data

Dec. 2020

KOREA SOFTWARE CONGRESS 2020 (KSC2020)

Soomin Lee, Seonyoung Kim, **Wonkuen Jo**, Junyoung Choi, Hyungshin Kim,
Dongil Kim

Intelligent data generation with generative adversarial nets for class-imbalanced problems

Jul. 2020

KOREA COMPUTER CONGRESS 2020 (KCC2020)

Wonkuen Jo, Dongil Kim