



Jin Yukai

New Spring Fellowship

BASIC INFORMATION

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SKILLS

Experimental Apparatus

FLIR, GRIMM

Software Skills

Python, SimaPro,

AutoCAD, QGIS

LANGUAGE

English (fluent), Japanese
(conversation), Chinese (native)

AWARDS

2020, 2022

Graduate Scholarship, GDUT

2023

SmaSo-X Scholarship, HU

2024

New Spring Fellowship, HU

EDUCATION

2023.10-

Hiroshima University, Japan

Ph.D. candidate

Social Innovation Science

2020.09-2023.06

Guangdong University of Technology, China

Master

Civil Engineering

2016.09-2020.06

Jiangxi Agricultural University, China

Bachelor

Civil Engineering

THESIS & DISSERTATION

Master's Thesis

1. Yukai J., Prediction of Carbon Emission in The Pearl River Delta Based on Machine Learning, 2022

Doctoral Dissertation Title

1. Yukai J., A deep learning approach to analyze future urban emission pathways.

RESEARCH ACHIEVEMENTS

Papers

1. Zhisheng L., Yukai J., Xiguan L., et al., Thermography evaluation of defect characteristics of building envelopes in urban villages in Guangzhou, China. Case Studies in Construction Materials 2022, 17: e01373.
2. Yukai J., Ayyoob S., Zhisheng L., Carbon Emission Prediction Models: A Review, Science of the Total Environment. 2024, 927, 172319.

Conference

1. Yukai J., Ayyoob S., Predicting long-term building energy consumption using multiple feature clustering and machine learning: applications in Shanghai, China, the 16th International Conference on Applied Energy. Oral presentation, Nigata, 2024.

Patents

1. Zhisheng L, Yukai J., PM2.5 prediction method and prediction model training method based on hybrid clustering, (No.2022102076495) March 3, 2022. (Chinese invention patent).
2. Zhisheng L, Yukai J., A carbon emission prediction method based on deep learning, (No.202211247187.6), October 12, 2022. (Chinese invention patent).

RESEARCH PROJECTS

1. From October 1,2023 to September 30,2024, I led the SmaSo-X Challenge Project (Project Name. A deep learning approach to analyze future urban emission pathways).
2. From September 30,2021 to September 30,2023, I participated in the soft science research project of Guangdong Provincial Department of Housing and Urban-Rural Development (Project No. 2021-R2-283159).