

Dong Jia

Department of Electrical and Software Engineering
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RESEARCH INTEREST

UAV-Aided Network Deployment and Resource Allocation Using Digital Twins
Digital twins modeling with AI, UAV-assisted network deployment, and joint optimization.

AI-Enabled Computing and Networking for Future Wireless Applications

Edge computing, edge AI, end-edge-cloud interplay, joint networking slicing and computing task offloading.

EDUCATION

Doctor of Philosophy (Ph.D.), Electrical Engineering
Master of Science (M.Sc.), Electrical Engineering
University of Calgary, Calgary, AB, Canada

Sept. 2024 – Present
Sept. 2023 – Aug. 2024

Bachelor of Engineering (B.E.), Software Engineering
Shandong University, Jinan, Shandong, China

Sept. 2016 – Jun. 2020

EMPLOYMENT

Rust Quantitative Trading Developer
Feitu Co., Ltd., Shanghai, China
Duties: Develop the quantitative trading platform
and provide technical support to customers.

Feb. 2023 – Jul. 2023

Software Engineer
Pinduoduo Inc., Shanghai, China
Duties: Develop and maintain scalable back-end services
for a platform used by millions.

Jul. 2020 – Apr. 2022

AI Platform Development Internship
Huya Inc., Guangzhou, China
Duties: Develop the Image Labeling Platform
and deploy monitoring systems on Kubernetes clusters.

Jul. 2019 – Nov. 2019

PUBLICATION

Refereed Conference Papers

[C1] **D. Jia** and Q. J. Ye, “Mobility-Adaptive Digital Twin Modeling for Post-Disaster Network Traffic Prediction,” *IEEE VTC-Fall’24 – IEEE 100th Vehicular Technology Conference*, Washington DC, USA, Oct. 2024.

RESEARCH EXPERIENCE

Graduate Student
Department of Electrical and Software Engineering
University of Calgary, Calgary, Canada.

Sept. 2023 – Now

✓ Digital-Twin-Enabled Intelligent Network Deployment

- Digital twin modeling for network environments using machine learning methods
- Network deployment based on constructed digital twin models

Undergraduate Research Assistant

School of Software

Shandong University, Jinan, China.

May 2017 – Dec. 2018**✓ Machine Learning for Heart Disease Detection**

- Literature review on existing methods
- Model reproduction and prototype development

SKILLS**Programming Languages:**

Rust, Python, Java, C/C++, and Go.

Systems/Softwares:

Kubernetes, Prometheus, MySQL, Apache Kafka, gRPC, and Linux.

HONORS and AWARDS

- IEEE Vehicular Technology Society Student Travel Award, Washington DC, USA, Oct. 7-10, 2024.
- National Motivational Scholarship (twice), Shandong University, China, 2017-2019.
- Outstanding Graduated Thesis, Shandong University, China, 2020.

TEACHING EXPERIENCE**Teaching Assistant****Jan. 2024 – Dec. 2024**

Department of Electrical and Software Engineering, University of Calgary

Undergraduate course: ENSF 444 “Machine Learning Systems”

Undergraduate course: ENSF 462 “Networked Systems”

Duties: Lab supervision, Q&A support, and assignment grading.