



Xinyu Yuan

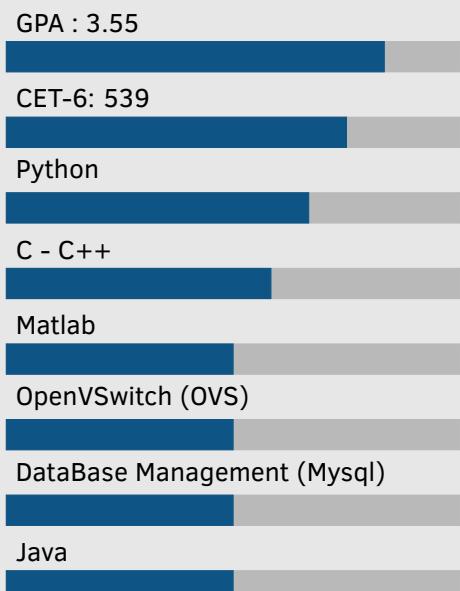
Graduate Student

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About me

Yuan is a really hard-working and the person who loves to be successful. He has demonstrated exceptional aptitude in understanding the intricate complexities of computer networks, coupled with a keen interest in the powerful potential of artificial intelligence. As an aspiring researcher, Yuan envisions contributing to the ever-evolving landscape of technology by exploring innovative solutions that bridge the gap between networking and AI. And Yuan had joined institute of distributed intelligence and internet of things at HFUT in China.

Skills



Education

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|-----------|--|-------|
| 2017-2021 | B.Sc. Anhui Agricultural University
Logistics Engineering | China |
| 2022-2025 | M.Sc. Hefei University of Technology
Computer Science | China |

Awards and Achievements

- Graduate Academic Scholarships for the 2022-2023 year
- Graduate Academic Scholarships for the 2023-2024 year

Research Publications

Traffic Matrix Estimation based on Denoising Diffusion Probabilistic Model

- Authors : **Xinyu Yuan** , Yan Qiao et al.
- IEEE Symposium on Computers and Communications (ISCC 2023)

Routing-Oblivious Network Tomography with Flow-Based Generative Model

- Authors : Yan Qiao , **Xinyu yuan** , Kui Wu
- IEEE International Conference on Computer Communications (INFOCOM 2024)

Unsupervised anomaly detection for multivariate time series using diffusion model

- Authors : Rongyao Hu , **Xinyu Yuan** , Yan Qiao et al.
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2024)

Diffusion-TS: Interpretable Diffusion for General Time Series Generation

- Authors : **Xinyu Yuan** , Yan Qiao
- International Conference on Learning Representations (ICLR 2024)

AutoTomo: Learning-Based Traffic Estimator Incorporating Network Tomography

- Authors : Yan Qiao , Kui Wu , **Xinyu Yuan**
- To appear in IEEE/ACM Transactions on Networking (TON/TNET)

Technical Information

Granted Patents

- Name: Internet of Things Data Anomaly Detection Model Training , Detection Method and System
 - Authors: Yan Qiao , **Xinyu Yuan** , Benchu Zhang et al.
 - Number: CN115589608A
- Name: Network Traffic Matrix Estimation , Model Training Method and System based on Deep Learning
 - Authors: Yan Qiao , **Xinyu Yuan** , Zhenchun Wei et al.
 - Number: CN116319378A
- Name: Diffusion Model-based Missing Network Traffic Matrix Filling Method and System
 - Authors: Yan Qiao , **Xinyu Yuan** , Zhenchun Wei et al.
 - Number: CN118555215A

Research Interest

1. Machine Learning
2. Traffic engineering
3. Diffusion / Large Language Models
4. Data and Network Security
5. Network Measurement