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{% if site.google_scholar_stats_use_cdn %} {% assign gsDataBaseUrl = "https://cdn.jsdelivr.net/gh/" | append: site.repository | append: "@" %} {% else %} {% assign gsDataBaseUrl = "https://raw.githubusercontent.com/" | append: site.repository | append: "/" %} {% endif %} {% assign url = gsDataBaseUrl | append: "google-scholar-stats/gs_data_shieldsio.json" %}

👨‍🎓 About Me

I'm a post-graduate student at Automation School, Beijing Institute of Technology, and received B.Eng. degree from the College of Information Science and Technology, Beijing University of Chemical Technology. As a member of the X-NS Group, I'm supervised by A.P. Zhan Yufeng. My research interests include Video Analytics System and Edge Intelligence.

The people who are crazy enough to think that they can change the world, are the ones who do.

🔥 News

2024.04.13 🎉🎉 The latest paper "Tangram: High-resolution Video Analytics on Serverless Platform with SLO-aware Batching" has been accpet in IEEE ICDCS 2024.

2024.04.01 🎉🎉 The paper "Octopus: An End-to-end Multi-DAG Scheduling Method Based on Deep Reinforcement Learning" has been accpet as a poster paper in CCC 2024.

2023.12.16 🎉🎉 Won the First Prize of The 20th China Post-Graduate Mathematical Contest in Modeling and the Champion of Mathematical Modeling Star.

2022.08.31 🎉🎉 The paper "*Lore: A Learning-based Approach for Workflow Scheduling*" has been accpet as a poster paper in RACS 2022.

2022.07.11 🎉🎉 Received an acceptance letter from the School of Automation, Beijing Institute of Technology!

2022.06 🎉🎉 My graduation thesis was awarded as BUCT Excellent graduation thesis!

📝 Publication

📜 Articles

ACM MM 2024

![sym]

Arena: A Patch-of-Interest ViT Inference Acceleration System for Edge-Assisted Video Analytics

Submitted to ACM MM 2024

```
<div class='paper-box'><div class='paper-box-image'><div><div
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width="100%"></div></div>
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Octopus: An End-to-end Multi-DAG Scheduling Method Based on Deep Reinforcement Learning

43rd Chinese Control Conference

Yi Chang, **Haosong Peng**, Yufeng Zhan, Yuanqing Xia

IEEE ICDCS 2024

sym

Tangram: High-resolution Video Analytics on Serverless Platform with SLO-aware Batching

2024 International Conference on Distributed Computing Systems

Haosong Peng, Yufeng Zhan, Peng Li, Yuanqing Xia

IEEE TSC

sym

Egret: Reinforcement Mechanism for Sequential Computation Offloading in Edge Computing

Submitted to IEEE Transactions on Service Computing

RACS 2022

sym

Lore: A Learning-based Approach for Workflow Scheduling in Clouds

2022 International Conference on Research in Adaptive and Convergent Systems

Haosong Peng, Chuge Wu, Yufeng Zhan, Yuanqing Xia

Talk | Slide

IEEE Access

sym

[**Trajectory Tracking of a Novel Underactuated AUV via Nonsingular Integral Terminal Sliding Mode Control**](https://ieeexplore.ieee.org/document/9492070)

IEEE Access | 07-20-2021

Zhiwei Wu, **Haosong Peng***, Biao Hu, Xiaodong Feng

📁 Patents

- 一种针对目标检测的云边协同方法、装置及产品（已受理，除导师外第一发明人）
- 一种视频分析边缘计算加速方法、装置、介质及产品（已受理，除导师外第一发明人）

- 一种基于图神经网络的 LRA 调度方法、设备及介质（已受理，除导师外第三发明人）

📖 Educations

- *2022.09 - 2025.06 (now)*, Post-graduate, Automation School, Beijing Institute of Technology, Beijing

- *2018.09 - 2022.06*, Undergraduate, the College of Information Science and Technology, Beijing University of Chemical and Technology, Beijing

  Rank: 1/153 | GPA: 4.07/4.33

- *2015.09-2018.06*, Chongqing Yucai Secondary School, Chongqing

🎖️ Honors and Awards

- 2023.11 First Prize of The 20th China Post-Graduate Mathematical Contest in Modeling.
- 2023.11 First Prize of Huawei Special Award, Champion of Mathematical Modeling Star (Top 0.05%, First in BIT History.)
- 2023.10 First-class scholarship of Beijing Institute of Technology
- 2022.06 Outstanding Graduates of Beijing
- 2022.06 Outstanding Graduation Project of Beijing University of Chemical Technology
- *2020.10* National Scholarship (Top 1%)
- *2019.10* National Scholarship(Top 1%)

💻 Internships

- *2022.06 - 2022.07*, China Academy of Information and Communications Technology (CAICT), Chongqing.

👥 Links

- Group Members

- - Ruifeng Ma
  - TIanyu QI

- Co-authors

  - - Hao Li
    - Zhiwei Wu