

# Gaosheng Zhao

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Xi'an, China

2000-01

Apply for PhD Program in 2024-Fall



## EDUCATION

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### Xidian University

Sep 2021 - Jun 2024

Transportation Engineering Master with the State Key Laboratory of Integrated Services Networks

Xi'an, China

- GPA: 88.54/100
- One School-level Scholarship

### Xidian University

Sep 2017 - Jun 2021

Communications Engineering Bachelor with the School of Telecommunications Engineering

Xi'an, China

- GPA: 3.6/4.0
- Two School-level Scholarships
- Second Prize of National University Mathematics Competition at Provincial Level

## RESEARCH INTERESTS

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**Vehicular Networks, Intelligent Transportation Systems, Game Theory**

## PAPERS

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1. Y. Hui (My tutor), **G. Zhao**, Z. Yin, N. Cheng and T. H. Luan, "Digital Twin Enabled Multi-task Federated Learning in Heterogeneous Vehicular Networks," 2022 IEEE 95th Vehicular Technology Conference: (VTC2022-Spring), 2022, pp. 1-5, doi: 10.1109/VTC2022-Spring54318.2022.9860503

- Scenario: Multiple requesters with training requirements, multiple roadside units with training capabilities
- Problem: The two-way selection between requesters and roadside units
- Solution: NtoN matching game based on their preference lists

2. Y. Hui (My tutor), **G. Zhao**, C. Li, N. Cheng, Z. Yin, T. H. Luan and X. Xiao, "Digital Twins Enabled On-demand Matching for Multi-task Federated Learning in HetVNs," in IEEE Transactions on Vehicular Technology, 2022, doi: 10.1109/TVT.2022.3211005

- Scenario: Multiple requesters with training requirements, multiple base stations with training capabilities
- Problem: The two-way selection between requesters and roadside units, the training vehicle selection process between the roadside unit and vehicles in its coverage
- Solution: NtoN matching game based on the preference lists of requesters and roadside units, 1toN bargain based on the utility of the roadside unit