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Education

University of Science and Technology of China

Anhui, China

Master of Computer Science and Technology

Sep. 2021 - Current

- GPA: 3.81(Ranking Top 10%, 11/116)
- Relevant Courses: Combinatorial Mathematics(95), Applied Mathematics for Computer Science(93), Advanced Computer Netwroks(95), Edge and Cloud Computing(91)

Chongqing University

Chongging, China

Bachelor of Finance

Sep. 2017 - Jun. 2021

- GPA: 3.59(Ranking Top 20%)
- Relevant Courses: Advanced Mathematics(90), Linear Algebra(91), Probability Theory and Mathematical Statistics(92), Java & Mobile App Development(91), Database Principles & Applications(92)

Publications

CONFERENCE PROCEEDINGS

ERS: Faster LiDAR Point Cloud Registration for Connected Vehicles

Yu Zhao, Jinrui Zhou, Mingjun Xiao, Jie Wu, Sun He

International Conference on Distributed Computing Systems (ICDCS), 2024

To achieve faster point cloud registration, we propose partitioning overlapping point clouds for registration in advance. For higher accuracy, we incorporate more geometric features during the registration. The Echo Registration System (ERS) increase the speed of existing point cloud registration methods.

Video Streaming Caching and Transcoding for Heterogeneous Mobile Users

Jinbo Cai, Mingjun Xiao, Junjie Shao, He Sun, Yu Zhao, Tongxiao Zhang

IEEE Conference on Parallel and Distributed Systems (ICPADS), 2023

We investigate how to cache and transcode video chunks for mobile users to maximize their Quality of Experience(QoE), while taking into consideration the cooperation between edge servers, users' mobility, and heterogeneous preferences.

JOURNAL ARTICLES

Cooperative Traffic Signal Online Control Using Game Theory and Contextual Bandit (under review)

Junjie Shao, Yu Zhao, He Sun, Jie Wu, Jinbo Cai, Mingjun Xiao

IEEE Transaction on Services Computing(TSC)

We take the cooperation between intersections as well as fairness into consideration and propose a novel traffic signal online control algorithm, called FCTSC. By exploiting the contextual MAB model combined with game theory, FCTSC can achieve a fair and efficient solution quickly.

Edge-assisted Multi-vehicle Cooperative Perception: an Approach Based on Relative Pose Estimation (under review)

Yu Zhao, He Sun, Mingjun Xiao, Jie Wu, Junjie Shao, Jinbo Cai

IEEE Transaction on Mobile Computing(TMC)

EVO adopts a suit of approaches to ensure the accuracy and real-time performance of cooperative perception: (1) a novel approach to estimate relative poses; (2) a hierarchical registration module to speed up pose estimation; (3) a Regions of Interest (RoIs) prediction module and a registrations reduction module to reduce the computation latency.

Competition Experience

Huawei Code Craft Contest 2023: Second Prize

Shanghai, China

Group Leader

2023

 The contest required a program to allocate robots' tasks in real-time with limited computing resources, while the robots' movements are also managed.

CCF Computational Economics Competition 2023: Ranked Fifth

China

Track Two

2023

 This competition involves training agents to determine the behaviour of individuals to increase rewards, while government's decisions need to be taken into account.

Huawei Code Craft Contest 2024: Second Prize

Shanghai, China

Group Leader

2024

This competition requires solving the navigation problem of multiple robots in real time.

May 28, 2024

Skills

Programming Python, C/C++, JAVA

FrameworksPytorch, Open3D, ORBSLAM, LOAM, CarlaLanguagesChinese, English (IELTS:6.5), GRE(319+3.5)SensorsRGB Camera, Stereo Camera (ZED2), LiDAR, IMU

Honors & Awards

Mar.2024Outstanding Graduates in USTCHefei, ChinaOct.2023, Postgraduate Academic Scholarship in USTC: First PrizeHefei, ChinaOct.2022, Postgraduate Academic Scholarship in USTC: First PrizeHefei, ChinaOct.2021, Postgraduate Academic Scholarship in USTC: Second PrizeHefei, China2018,2019, Comprehensive Scholarship in CQU, TwiceChongqing, China2017, Outstanding Students in Shandong ProvinceShanDong, China

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