Zhiyang Ding

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EDUCATION

Northwestern Polytechnical University 2022.09 - Present
Honors College Computer Science and Technology

- **Weighted Average Score**: 92.06 **Rank**: 5/168 (Top 3%) **CET6**: 508
- **Courses Included**:
  Calculus I/II (100/98) Applied Linear Algebra (100)
  Discrete Mathematics (100) Probability Theory and Mathematical Statistics (96)
  Complex Analysis (96) Principles of Database Systems (95)

HONORS AND COMPETITIONS

Honors

Nov 2024: **National Scholarship**
Dec 2024: Second-Class Scholarship, NWPU
Dec 2023: Second-Class Scholarship, NWPU
Dec 2024: Excellent Student, NWPU
Dec 2023: Excellent Student, NWPU
Dec 2024: Innovation Star Scholarship
Dec 2024: Academic Star Scholarship
Nov 2023: Academic Star Scholarship

Competition Awards

American Mathematical Contest in Modeling: H Award
15th National College Student Mathematical Competition: Second Prize
4th National College Student Algorithm Design and Programming Challenge: Bronze Award
National English Contest for College Students: Third Prize

RESEARCH EXPERIENCE

Video-based Edge-end Model Adaptation 2024.04 - Present
Ministry of Industry and Information Technology Key Laboratory of Intelligent Perception and Computing

- **Research Goal**: Tackle data drift in driving via edge-end DNN compression and evolution.
- **Main Work**: Built an adaptation framework with DETR as teacher and YOLOv9-t distillation on-device. Used CARLA for synchronized, diverse driving data. Reproduced key related methods.
- **Reach Progress**: The core algorithm and experiments have been completed, and the paper drafting is in progress, presenting a proposed solution to adversarial data drift.

Heterogeneous Multi-agent Collaborative Perception 2024.09 - Present
Ministry of Industry and Information Technology Key Laboratory of Intelligent Perception and Computing

- **Research Goal**: To address delay and spatiotemporal challenges in heterogeneous agents' collaborative perception via V2X communication.
- **Main Work**: Reproduced SOTA methods from recent papers for accuracy comparison. Developed and implemented proposed innovative methods.
- **Research Progress**: Contributed to the paper "*Spatio-Temporal Synergy with ViT: Enhancing Collaborative Perception and Object Detection for Heterogeneous Agents*" published in Sensys (CCF-B, Tsinghua Recommend A). For the subsequent work, the core algorithm has been completed, with code implementation and experimental validation currently in progress.

Object Pose Estimation for Robotic Grasping 2023.12 - Present
Provincial Undergraduate Training Program for Innovation and Entrepreneurship **Team Leader**

- **Goal**: Improve category-agnostic pose estimation under varying viewpoints.
- **Work**: Led review and reproduction of pose estimation methods across three levels.
- **Progress**: Proposed ideas based on SOTA work, with basic experiments currently in progress.