

DINGHAN WANG

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Education

Northwestern Polytechnical University, Shaanxi, China

Sep 2022 - Present

M.Eng. System Engineering

90/100 CGPA

- Postgraduate recommendation
- Research interests: Deep Reinforcement Learning, Computer Vision, Intelligent Systems, UAV, Control Systems, Game Theory

Northwestern Polytechnical University, Shaanxi, China

Sep 2018 - Jun 2022

B.Eng. Detection, Guidance and Control Technology

3.46/4 GPA, 10/65 RANK

- Distinguished Graduate
- Outstanding Graduation Project
- Full marks in Theoretical Mechanics, Principle of Automatic Control I and Computational Methods courses.

Publications

- Jiandong Zhang, **Dinghan Wang**, Qiming Yang, Zhuoyong Shi, Longmeng Ji, Guoqing Shi, Yong Wu. Loyal wingman task execution for future aerial combat: A hierarchical prior-based reinforcement learning approach[J]. Chinese Journal of Aeronautics. (**co-first author**), **SCI JCRQ1 IF=5.7**
- **Dinghan Wang**, Longmeng Ji, Jingbo Wang, Zhuoyong Shi, Jiandong Zhang, Qiming Yang, Guoqing Shi, Yong Wu, Yan Zhu, Jinwen Hu. Dogfight Advantage Occupancy Method Based on Imperfect Information Self-play. IEEE ICCA 2024. (**first author**)
- Jiandong Zhang, **Dinghan Wang**, Qiming Yang, Guoqing Shi, Yi Lu. Multi-dimensional Air-Combat Decision-making of UAV Based on HRL[J]. Acta Armamentarii, 2023,44(06):1547-1563.(in Chinese)
- Yunhong Ma, Yunhao Liu, Yuqiao Yang, **Dinghan Wang**, Jian Zhang. Multi-UAV Autonomous Cooperative Task Assignment Based on Consistent Group Algorithm[J]. Unmanned Systems Technology,2021,4(04):51-58.(in Chinese)

Projects

The Key R&D Projects in Shaanxi Province (No.2022GY-089)

Sep. 2022 - Present

Multimodal Recognition, Situational Awareness (Student Leader)

The Natural Science Basic Research Program of Shaanxi (No.2022J0-593)

Jun.2022 -Jan. 2024

Reinforcement learning: Intelligent Decision Making (Student Leader)

Technical Skills

Languages: Python, C, C++

Frontend: HTML, CSS, JavaScript

Clouds & Databases: MySQL, Tencent Cloud, Ali Cloud, Azure Cloud

Web Technologies: Docker, NAT(v4&v6), Nginx, HTTP, SSL

Operating Systems: Windows, Debian, Ubuntu, MacOS, OpenWRT, Proxmox VE

Tools: PyTorch, OpenCV, OpenDDS, Git, Vim

Honours and Awards

National Graduate Student Electronic Design Competition

Aug 2023

Northwestern Regional First Prize, Team Award (Team Leader)

National Graduate Student Electronic Design Competition (Business Track)

Aug 2023

Northwestern Regional Third Prize, Team Award

National College Students' Innovation and Entrepreneurship Training Program

Jun 2022

Third Prize, Team Award (Team leader)

Distinguished Graduate

Jun 2022

Outstanding Graduation Project

AY 2020 - 2021

Scholarship from the School of Electronic Information (Twice)

AY 2019 - 2021

Experience

Academic Expeditions

- 2023 Future AI Masters and Global IT Training Camp
- Member of the Mathematics Modeling Association

Community Involvement

- Served as a distinguished undergraduate representative, sharing academic and graduate application experiences with fellow undergraduates.
- Shared experiences as a senior student in university career planning courses.
- Acted as a mental health committee member during both undergraduate and master's studies, organizing psychological counseling activities during the pandemic.
- Volunteered as a material transporter during the pandemic.