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: Control, Deep Learning, Reinforcement Learning

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. 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

Formation Intelligent Collaborative Control Technology Project   **Jan 2023 - Aug 2023**
Overall (Team Leader)

Precision Assessment Project   **AY 2022 - 2023**
Data Fusion Subsystem Simulation Module (Team Leader)

Technical Skills

Languages: Python, C, C++
Frontend: HTML, CSS
Clouds & Databases: MySQL
Web Technologies: Docker
Developer Tools: PyCharm, VS Code, GitHub

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.