Spider-i UAV R&D Team

Wang ZhiSheng

Research Field: *Industrial applications of UAV, integrated control technology, UAV swarm systems*

Professor and Ph.D. Supervisor, School of Automation, Nanjing University of Aeronautics and Astronautics

 # Research #

- *Awarded 1st Prize in Scientific and Technological Progress by China Aviation Industry Corporation, 3rd Prize in National Defense Science and Technology Progress, and 1st Prize in Scientific and Technological Progress by Nanjing University of Aeronautics and Astronautics.*
- *Applied for 26 national invention patents and utility model patents, with 8 invention patents granted.*
- *Published 60+ papers. Authored 2 monographs, 1 textbook, and 1 set of lecture notes.*

 # Projects #

- *2 projects funded by the National Natural Science Foundation of China.2 sub-projects under the National High-Tech Research and Development Plan (863 Plan).1 Doctoral Fund of the Ministry of Education (for Ph.D. supervisors).1 Aviation Science Fund project.1 National Defense Basic Pre-research Fund project.1 China Postdoctoral Science Fund project.20+ collaborative projects with national defense research institutes.*

OuYang Quan

Research Field: *Power management of UAV, UAV flight control, UAV target detection and recognition, UAV swarm control*

Associate Professor and Master's Supervisor, School of Automation, Nanjing University of Aeronautics and Astronautics

 # Research #

- *Obtained Ph.d in Control Science from Zhejiang University in 2018.*
- *Associate Professor and Master's Supervisor at Nanjing University of Aeronautics and Astronautics.*
- *Published 29 SCI/EI papers. Granted 4 patents. Filed 4 public invention patents, including 9 papers in top international SCI journals IEEE Transactions.*
- *Member of IEEE, the Chinese Association of Automation, and the Technical Committee of Power Batteries, IEEE PES China.*

 # Projects #

- *1 National Natural Science Foundation of China Youth Project.*
- *1 Jiangsu Province Double Innovation Doctor Project.*
- *1 China Postdoctoral Science Foundation Project.*
- *1 Open Topic from the State Key Laboratory of Industrial Control, ZJU.*
- *Participated in several projects, including the National Natural Science Foundation of China Key Projects, etc.*
- *Guided students to win prizes in National Undergraduate Electronic Design Contest (UAV Group) and the China Robot Competition.*

Ye ShangJun

Research Field:*Aerodynamics and aircraft design, mainly in R&D of supersonic and subsonic stealth aircraft*

Postdoctoral Fellow, Lecturer, and Associate Researcher at the School of Aeronautics and Astronautics, Zhejiang University

 # Research #

- *Received a Bachelor's degree in Engineering Mechanics at Tsinghua University in 2003; a Master's degree from the School of Aerospace Engineering at Tsinghua University in 2006; and a Ph.D. degree from Queen Mary University of London in 2010.*
- *Postdoctoral fellow, lecturer, and associate researcher at the School of Aeronautics and Astronautics, Zhejiang University*
- *Selected as the Zhejiang University Qiu Shi Young Scholars in 2014.*
- *Published 20+ articles,10+ patents.*

 # Projects #

- *Has led/participated in 10+ military projects as the project leader, possessing rich experience in UAV design and engineering.*
- *Completed the design work of various types of UAVs as the technical leader.*

Wang Yuan

Research Field: Desktop software development, embedded software development

Beidou navigation drones, antenna measurement drones, quadcopter indoor & outdoor formation, heavy-load carrying robots

Liu ZhiJun

Beijing Institute of Technology, Weapon Science, Master

Former Equipment Project Director at China Ordnance Industry Planning Research Institute. Experienced in innovative drone designs like ducted, flexible wings, trans-medium, and variable-pitch; holds over 10 patents and multiple award-winning products.

Lu JianLei

NUAA, School of Automation (Control Engineering), Master

Research Field: Drone formation control, drone application development, drone system design, lighting show formation with quadcopter, drone swarm control

Cui Li

Tsinghua University, School of Economics and Management, Business Administration Major, Master

11 years of R&D experience at Huawei, former R&D Director for a high-end router product, responsible for the product achieving the highest global market share. Skilled in system architecture and embedded software development

Cong YuHua

NUAA, , School of Automation, Ph.D

Research Field: Drone swarm planning and control

Published 16 papers; granted 4 patents, 2 software copyrights; co-writing 2 books, led several drone-related projects; led/participated in 2 national-level scientific research projects and 5 Jiangsu province scientific research projects

Yu Yang

Experienced in large yacht composite material production, mold development, and process forming. Contributed to manufacturing the Rainbow-4 military drone. At Qingdao Yarong, specialized in high-speed rail composite materials, developing processes and participating in interior/exterior designs and production control for high-speed rail and subway projects.

无人机研发团队

王志胜

研究领域：无人机工业应用、融合控制技术、无人机蜂群系统

南京航空航天大学 博士生导师

科研背景

- 南京航空航天大学自动化学院教授、博士生导师
- 获中国航空工业总公司科技进步奖一等奖、国防科学技术进步奖三等奖、南京航空航天大学科学技术进步奖一等奖等
- 申请国家发明专利和实用新型专利26项，授权发明专利8项
- 发表学术论文60余篇
- 出版专著2部，教材1部，讲义1 部

课题项目

- 国家自然科学基金面上项目 2 项
- 国家高技术研究发展计划（863计划）子项目 2 项
- 教育部博士点基金(博导类) 1 项
- 航空科学基金 1 项
- 国防基础预研基金 1 项
- 中国博士后科学基金 1 项
- 20 多项国防科研院所合作项目

欧阳权

研究领域：无人系统电源管理、无人机飞行控制、无人机目标检测与识别、无人机蜂群协同控制

南京航空航天大学 居里学者

科研背景

- 2018年获浙江大学控制科学与工程专业工学博士学位
- 南京航空航天大学自动化学院副教授、硕士生导师
- 发表SCI/EI论文29篇
- 授权专利4项
- 公开发明专利4项，其中包括9篇一作/通讯/学生一作国际顶级SCI期刊IEEE汇刊（2篇为ESI高引论文）
- IEEE Membership, 中国自动化学会会员，IEEE PES 中国区技术委员会动力电池技术分委会理事

课题项目

- 国家自然基金青年项目1项
- 江苏省双创博士项目（世界名校类<高校创新>）
- 中国博士后面上项目
- 浙江大学工业控制国家重点实验室开放课题
- 参与包括国家自然基金重点项目,装备预先研究项目等在内的多个项目
- 指导本科生获得全国大学生电子设计竞赛（无人机组）,中国机器人大赛等并获奖

叶尚军

研究领域：空气动力学和飞行器设计
主要负责超音速和亚音速隐形飞行器研发

浙江大学 副教授

科研背景

- 2003年获清华大学工程力学系学士学位；2006年获清华大学航天航空学院硕士学位；2010年获英国伦敦大学玛丽皇后学院博士学位
- 2011年至今浙江大学航空航天学院博士后，讲师，副研究员
- 2014年入选浙江大学求是青年
- 发表文章20余篇，专利10余项

课题项目

- 作为项目负责人主持和参与十余项军工项目，具有丰富的无人机设计和工程经验
- 作为技术负责人完成多型无人机的设计工作。

王远

技术方向：桌面软件开发，嵌入式软件开发

北斗导航无人机、天线测量无人机、四旋翼无人机室内编队、四旋翼无人机室外编队、重载搬运机器人

陆剑雷

南京航空航天大学自动化学院（控制工程） 硕士

无人机编队控制、无人机上层应用开发、无人机系统设计、四旋翼无人机室内灯光秀编队、无人机集群控制器、北斗导航无人机、天线测量无人机

丛玉华

南京航空航天大学自动化学院 博士
研究方向：无人机蜂群规划与控制

发表论文16篇；授权实用新型专利4项、软件著作权2项；参与编书2部，主持/参与多个无人机相关纵向/横向项目；主持/参与国家级科研项目2项，江苏省科研项目5项；指导国家级创新训练项目2项，江苏省创新训练项目4项

刘志军

北京理工大学兵器科学专业 硕士

曾任国防科工局中国兵器工业规划研究院装备项目主管
涵道、柔性翼、跨介质、变桨距等创新型无人机设计经历；专利10余项、产品多次获奖

崔利

清华大学经济管理学院工商管理专业 硕士

增任华为公司路由器产品族竞争战略委员/产品开发代表
华为公司11年研发工作经历，曾任华为公司某高端路由器产品研发总监，所负责产品全球份额第一。擅长系统架构和嵌入式软件研发

于洋

大型游艇复合材料生产，磨具开发、工艺成型；参加彩虹-4大型军用无人机制造；青岛亚荣从事高铁复合材料生产、工艺开发。参加了高铁和地铁内外装和司机台，新造车型，160-标动的磨具开发以及生产管控