Pilot the whole area and spread wing in the future
2024 International UAV Application and Control Conference
And the 8th (Beijing) UAV Industry Expo
Invitation letter

Date: April 27-29, 2024,

Beijing Yichuang International Convention and Exhibition Center, China

The China UAV Industry Innovation Alliance,which unites influential organizations of all parties, will hold the "International UAV Application and Control Conference and UAV Industry Expo" in Beijing, China from April 27 to 29, 2024. The Organizing committee is committed to combining the conference, exhibition and competition to create a high-standard and high-level international event for the application of the UAV industry, promote the healthy and effective development of the domestic UAV industry, strengthen international exchanges and cooperation in the UAV region, and explore the road of innovation and development of the international UAV industry.

一、Organization

Organizer:

China UAV Industry Innovation Alliance

Chinese Association of Optical Engineering

Undertaker:

China UAV Industry Innovation Alliance

China infrared and low-light industry Innovation alliance

National Key Laboratory of Electromagnetic Space Safety

Professional Committee on Intelligent perception and Industrial Informatization

Beijing Aerospace Exhibition Co., LTD

Beijing ZhiHang UAV Technology Co., LTD

Beijing Aoslong International Exhibition Co., LTD

Co-organizer:

People's Police University of China

Chinese Academy of Surveying and Mapping

China Quality Certification Center

Committee of entrepreneurship and innovation, Beihang University Beijing Alumni Association

Tianjin UAV Application Association

Chongqing unmanned system industry technology innovation strategic alliance

UAV Research Institute, Nanjing University of Aerospace

UAV Application and Control Research Center, Chinese Academy of Sciences

National agricultural intelligent equipment engineering technology Research center

China Academy of Aerospace Aerodynamics Technology

Shenzhen DJI Innovation Technology Co., LTD

China Electronics Technology Group Corporation eleventh Research Institute

China Electronics Technology Group Corporation fifty-fourth Research Institute

China Electronics Technology Group Corporation thirty-sixth research Institute

UAV Technology Research Institute of the Third Academy of China Aerospace Science and Industry Corporation

China Aerospace Science and Technology Corporation ninth Institute of UAV system Engineering

Institute of Electromagnetic Compatibility Technology, Beihang University

Beijing Flyer aviation science Promotion Center

二、**Exhibition name: 2024 UAV Industry Expo**

1. Exhibition scale

The exhibition area of the expo is 20,000 square meters, and more than 300 exhibitors.

2. Range of exhibits

※ **UAV whole machine and system:** UAV in defense, plant protection, mapping, security, emergency, logistics, power, aerial photography and other industries to apply relevant UAV systems and solutions;

※ **Core components of UAV system:** mission payload equipment, data link equipment, 5G network connection equipment, energy/power equipment, control/navigation technology and equipment, UAV related materials and electronic equipment;

※ **Navigation and low-altitude economy:** eVTOL aircraft, navigable aircraft, unmanned airships and other aircraft equipment, flight management platform, data platform and other software platforms;

※ **UAV defense system and equipment:** UAV detection, early warning technology and equipment, UAV jamming and countermeasures equipment, and system solutions;

※ **Unmanned system equipment:** unmanned vehicle, unmanned boat (boat), underwater unmanned underwater vehicle, unmanned car, etc.

3. Exhibition fee

1) Standard booth (size: 3×3 meters)

Open space (minimum 36 square meters from rent)

2) Domestic exhibitors: Standard exhibition: RMB 16,000 per booth

Open space: RMB 1,600 per square meter

3) International exhibitors: Standard exhibition: US $3000 per booth

Open space: US $300 per square meter

三、 **Contents of activities during the same period**

(一) **Technical direction topic/essay direction**

Topic 1: Measurement and control, communication and navigation technology

Topic direction: Radio technology, Neutrino communication, Quantum communication, underwater acoustic communication and navigation, radio frequency communication, electromagnetic wave communication, optical communication and navigation, magnetic field communication, integrated navigation technology, photoelectric detection and tracking, radar detection, radio detection, etc.

Topic 2: Mission Payload and target Identification technology topic

Topic direction: Multi-spectral camera load development; New spectral imaging and detection; Spectral radiation calibration and data quantification analysis, spectral image processing and data application; Radar target recognition under limited resources, intelligent model autonomous learning under open environment, efficient fusion of multi-modal information, quantitative evaluation of intelligent algorithm performance, etc.

Topic 3: Intelligent unmanned control technology topic

Topic direction: Unmanned system overall layout design technology, UAV launch and recovery technology, unmanned system material technology, unmanned system power device technology, unmanned system intelligent stealth technology, etc. Man-machine collaboration, cluster technology, distributed control, hybrid unmanned system interoperability, etc.

Topic 4: Defense and Countermeasures technology topic

Topic direction: UAV defense and Countermeasures Topic: UAV target warning, search, tracking, positioning and identification technology; UAV navigation, measurement and control, information transmission link interference and anti-jamming technology; UAV control, capture, soft and hard damage and other disposal technologies; Target camouflage and camouflage recognition technology; Electromagnetic protection technology; Low detectable structure and material technology; Simulation design, test experiment, efficiency evaluation technology, etc.

(二) Industrial Application Forum

Industrial Application Exchange Meeting 1: Police UAV application and Innovation Exchange meeting

Industrial Application Exchange Meeting 2: Natural resources and mapping UAV application exchange meeting

Industrial Application Exchange Meeting 3: Plant protection UAV application exchange meeting

Industrial Application Exchange Meeting 4: UAV inspection and certification summit exchange meeting

Industrial Application Exchange Meeting 5: UAV Innovation Technology and Industrial Development Exchange Meeting

Industrial Application Exchange Meeting 6: Intelligent navigation and UAV industry innovation exchange meeting

Industrial Application Exchange　Meeting 7: Low-altitude economy and UAV application exchange meeting

Industrial Application Exchange Meeting 8: Emergency rescue and unmanned intelligent equipment industry innovation exchange Meeting

Industrial Application Exchange Meeting 9: "Intelligent Soldier Pioneer" Unmanned System Technology Defense Application Seminar (Closed door meeting)

Industrial Application Exchange Meeting 10: UAV Prevention and Control Technology and Application Seminar (closed-door Meeting)

四、2024 National UAV Innovation Skills Competition

The 2024 International UAV Conference will be held in Beijing Yichuang International Convention and Exhibition Center in April 2024, and the "2024 National UAV Innovation Skills Competition" will be held at the same time. The competition aims to stimulate the scientific interest of UAV students and UAV enthusiasts, ignite scientific dreams, explore innovative UAV design talents, and promote the in-depth integration of UAV education and industry; Artificial intelligence has become a national strategy, the combination of UAV and artificial intelligence has become an industry trend, with the combination of UAV innovative design and artificial intelligence to promote the industry application of artificial intelligence.

五、**Contact information of the Organizing Committee**

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