

# ICAUAS 2025

October 24-26, 2025 | Songshan Lake, Guangdong

## 第三届先进无人飞行系统国际会议 2025 3<sup>rd</sup> International Conference on Advanced Unmanned Aerial Systems

# Welcome

On behalf of the organization committee, we warmly welcome you to the website for the 2025 3rd International Conference on Advanced Unmanned Aerial Systems (ICAUAS 2025), which will be held during October 24-26, 2025 in Songshan Lake, Guangdong, China. Organized by City University of Hong Kong (Dongguan), this conference provides a forum for the discussion and dissemination of knowledge and results in theory, methodology and new advances in Advanced Unmanned Aerial Systems and their applications in many other fields of science and engineering.

**Organized by:** City University of Hong Kong (Dongguan)

**Co-organized by:** Huazhong University of Science and Technology   Xi'an Jiaotong University   Tsinghua University

**Hosted by:** City University of Hong Kong (Dongguan) Technology and Innovation Center   State Key Laboratory for Strength and Vibration of Mechanical Structures  
Dongguan Key Laboratory for Computational Intelligence and Security

**Technically Supported by:** Dongguan Flyfire Co.,Ltd.   Dongguan Sanmu Aviation Technology Co., Ltd.   Dongguan Guosen Sports Entertainment Technology Co., Ltd.  
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**Technically Sponsored by:** IEEE-IES Technical Committee on Control, Robotics, and Mechatronics (China)

### Call for Papers

Please visit [www.icauas.net/cfp](http://www.icauas.net/cfp) for more information.

The topics of interest include, but are not limited to:

- 1. Autonomy and Control**
  - Control Architectures
  - Behavior Planning and Decision Making
- 2. Flight Dynamic and Control**
  - Aerodynamics
  - Attitude dynamics and control
- 3. Communication and Navigation**
  - Path Planning and Navigation
  - Frequency Management
- 4. Design and Simulation**
  - Micro-and Mini-UAS
  - Mission Design and Space Systems
- 5. Materials and Mechanics on Aerospace**
  - Advanced Aerospace Materials Processing and Manufacturing
  - Structure Design and Optimization
- 6. VTOL UAV in Low Altitude Economy (LAE)**
  - Aerodynamic Layout
  - Rotor Title Mechanism and Device

### Publication

Registered and presented full papers will be included in the ICAUAS 2025 digital conference proceedings and published in the [Springer Book Series Springer Aerospace Technology \(ISSN: 1869-1749\)](#), and submitted to major citation databases (including, but not limited to Ei Compendex and Scopus) for review and indexing.



### Key dates

**Registration Due:** October 14, 2025

**Final Paper Due:** October 14, 2025

**Main Conference:** October 24-26, 2025

### Submission

Please visit: [www.icauas.net/submit](http://www.icauas.net/submit) for more information.

Online submission system

<https://cmt3.research.microsoft.com/ICAUAS2025>

Or scan the QR Code:



### Contact us

Liam. Liang

Email: [inquiry@icauas.net](mailto:inquiry@icauas.net)

Website: [www.icauas.net](http://www.icauas.net)

### Plenary Speakers

**Zheng Hong (George) Zhu**

York University, Canada

**Yao Zheng**

Zhejiang University, China

**Renfu Li**  
Huazhong University of  
Science and Technology, China

**Ning Zong**  
Hebei University of  
Technology, China

**Fei Wang**  
Beijing Boying Navigation  
Technology Co., Ltd., China

### Committee

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#### Conference Chairs

**Zishun Liu**  
City University of Hong Kong  
(Dongguan), China

**Yao Zheng**  
Zhejiang University, China

**Renfu Li**  
Huazhong University of  
Science and Technology, China

**Peng Jiang**  
Xi'an Jiaotong University, China

### Special Sessions

Please visit: [www.icauas.net/SpecialSessions](http://www.icauas.net/SpecialSessions) for more information.

**Special Session I** - Intelligent UAV and Collaborative Unmanned Systems Technology

**Special Session II** - Advanced Experimental and Design Technologies for Low-Altitude Aircraft in Complex Environments

**Special Session III** - Key Structural Materials for Unmanned Aerial Systems

**Special Session IV** - Dynamic Stability for Structures of Unmanned Aerial Systems

**Special Session V** - Intelligent Perception and Control of Unmanned Systems

**Special Session VI** - Low-Altitude Vehicle Aerodynamic Design and Noise Assessment

**Special Session VII** - Intelligent Modeling and Control of Flow in Unmanned Aerial Systems

**Special Session VIII** - Aircraft Design Optimization for Green Aviation

**Special Session IX** - Development and Application of Intelligent Navigation and Multi-source Information Fusion Technology for Unmanned Systems

### Tracks

Please visit: [www.icauas.net/tracks](http://www.icauas.net/tracks) for more information.

**Track I** - Modeling, Design, and Control of Lighter-than-Air Unmanned Systems

**Track II** - Mission Planning and Control Technology for Low-Altitude Unmanned Aerial Vehicle

**Track III** - VTOL UAV in Low Altitude Economy (LAE)