

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 3rd 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), co-organized by Huazhong University of Science and Technology, Xi'an Jiaotong University and Tsinghua University, technically sponsored by IEEE-IES Technical Committee on Control, Robotics, and Mechatronics (China). 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  香港城市大學(東莞)
City University of Hong Kong
(Dongguan)

Co-organized by  華中科技大學
HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY  西安交通大學
XI'AN JIAOTONG UNIVERSITY  清華大學
Tsinghua University

Technically sponsored by IEEE-IES Technical Committee on Control, Robotics, and Mechatronics (China)

Call for papers

Please visit 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

(Last Round)

Abstract Submission Due: September 18, 2025
Full Paper Submission Due: September 25, 2025
Author Notification Due: October 7, 2025
Registration Due: October 14, 2025
Final Paper Due: October 14, 2025
Main Conference: October 24-26, 2025

Submission

Please visit: www.icauas.net/submit for more information.

Online submission system

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

Or scan the QR Code:



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Plenary Speaker

Renfu Li

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Special Sessions

Please visit: www.icauas.net/SpecialSessions for more information.

Special Session I - Intelligent UAV and Collaborative Unmanned Systems Technology

Special Session III - Key Structural Materials for Unmanned Aerial Systems

Special Session V - Intelligent Perception and Control of Unmanned Systems

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

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

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

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

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

Special Session VIII - Aircraft Design Optimization for Green Aviation

Tracks

Please visit: www.icauas.net/tracks for more information.

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

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

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