

# 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), 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

Click [here](#) for more.

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

#### 1. Autonomy and Control

- Autonomous Coordination and Control
- Behavior Planning and Decision Making
- Control Architectures
- Interaction Control
- Machine Learning and Artificial Intelligence
- See/Sense-Detect-and-Avoid Systems

#### 2. Flight Dynamic and Control

- Aerodynamics
- Attitude dynamics and control
- Flight dynamics and control of UAS

#### 3. Communication and Navigation

- Path Planning and Navigation
- Frequency Management
- UAS Communications

#### 4. Design and Simulation

- Micro-and Mini-UAS
- Mission design and space systems
- On-board energy
- Thermal science and applications

#### 5. Materials and Mechanics on Aerospace

- Smart Aerospace Materials and Applications
- Structure Design and Optimization
- Mechanical Analysis and Testing
- Damage and Health Monitoring

### Key dates

(Third Round)

**Abstract Submission Due:** July 30, 2025

**Full Paper Submission Due:** August 20, 2025

**Author Notification Due:** September 1, 2025

**Registration Due:** September 24, 2025

**Final Paper Due:** September 24, 2025

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

### Submission

Click [here](#) for more information.

Online submission system

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

Or scan the QR Code:



### Contact us

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### Committee

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### Publication

Conference presented and registered full paper will be included in digital conference proceeding and published in the [Springer Book Series Springer Aerospace Technology \(ISSN: 1869-1749\)](#), and submitted to major citation databases like Ei Compendex, Scopus etc. for reviewing and indexing.



Compendex on  
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Scopus

### Publication history



**ICAUAS 2023** has been published by Springer Aerospace Technology and indexed by EI and Scopus database.



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### Special Sessions

Click [here](#) to learn more about special sessions.

**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

### Tracks

Click [here](#) to learn more about special sessions.

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