



# NEWSLETTER

**H K S R A**

The Hong Kong Society of Robotics and Automation

**September, 2025**

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# CMAAE 2025

2025 5th International Conference on Mechanical, Aerospace and Automotive Engineering

Nanjing, China    November 7-9, 2025

## Introduction

The 2025 5th International Conference on Mechanical, Aerospace and Automotive Engineering (CMAAE 2025) will be held in Nanjing, China during November 7-9, 2025. It is organized by Nanjing University of Aeronautics and Astronautics, hosted by College of Energy and Power Engineering, NUAA, and co-organized by Beihang University.



南京航空航天大学  
NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS



能源与动力学院  
College of Energy and Power Engineering NUPA



北京航空航天大学  
BEIHANG UNIVERSITY

## Topics of Interest

- Acoustics
- Fuels and Combustion
- Green Manufacturing
- Heat and Mass Transfer
- Noise Vibration & Harshness
- Propulsion and Energy
- Structures and Materials
- UAV and MAV
- Engineering Thermophysics
- Experimental Methods and Measurements
- Flight Dynamics and Controls
- Flight System
- Automation

## PROCEEDINGS GALLERY



CMAAE 2023 Proceedings

Published by IET Conference Proceedings

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Ei Compendex & Scopus



CMAAE 2022 Proceedings

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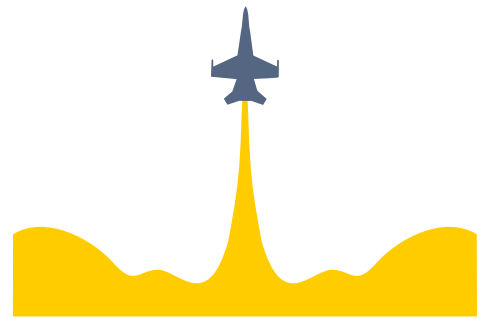
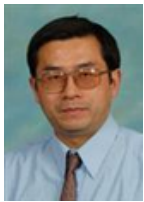
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# KEYNOTE SPEAKER

## Keynote Speaker I

### Professor Yufeng Yao

University of the West of England, UK



Brief introduction: He is a Professor in Aerospace Engineering and Head of Engineering Modelling and Simulation (EMS) research group. Dr Yao's research explores fundamental flow physics by using high-fidelity simulation code (DNS and LES), as well as engineering turbulent flow problems by using industry standard computer code (RANS and URANS). His research covers various inter-connected research themes, including turbulent wake dynamics, turbulent boundary-layers, and laminar transition to turbulence in the shock-induced separation bubbles, among others.

## Keynote Speaker II



### Professor Junhui Hu

Nanjing University of Aeronautics  
and Astronautics, China

## Keynote Speaker III



### Professor Jianyao Yao

Chongqing University, China





CMAAE 2025

# Special Sessions

Special sessions supplement the regular program of the conference and provide a sample of state-of-the-art research in both academia and industry on special, novel, challenging, and emerging topics.



## Session I : Key Technologies of Hydrogen Fuel Cells for Automobile and Aerospace

Topics of Interest:

- Progress in the Development of Fuel Cell Membrane Electrode Assembly for Automobile and Aerospace
- Progress in the Development of Fuel Cell Metal Bipolar Plates for Automobile and Aerospace
- Progress in the Development of Key Technologies of Fuel Cell Stacks for Automobile and Aerospace



## Session III : Advanced Technologies for Vehicle Body Vibration and Intelligent Cabin Noise Control

Topics of Interest:

- Passive and active vibration and noise control technologies
- Intelligent control approaches for vehicle interior noise
- Acoustic metamaterials applications in low or high frequency noise
- Engine/motor noise, road/tire noise and wind noise control

## Session II : Flow, Combustion and Control in Propulsion Systems

Topics of Interest:

- ✓ Propellant Combustion
- ✓ Droplet Combustion
- ✓ Combustion Diagnostics
- ✓ Combustion Modeling
- ✓ Combustion Control

## Session IV: Combustion Issues in Propulsion Systems

Topics of Interest:

- Combustion in aero-engines
- Combustion in gas turbines
- Combustion in ramjet engines
- Detonation combustion
- Turbulent combustion
- Multi-phase combustion