

CoMEA
2025

2025年航空航天机械程国际会议

2025 International Conference of
Mechanical Engineering on Aerospace

Harbin, China | June 20-22, 2025

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- The topics of interest include, but are not limited to:
- Aerospace Propulsion
 - Aerospace Systems Testing and Measurement Techniques
 - Advanced Motion Control
 - Applied Mechanics
 - Automation and Control
 - CAD/CAM/CAE
 - Computational Fluid Dynamics
 - Fluid Dynamics
 - Guidance, Navigation, and Control
 - Intelligent Control
 - Mechatronics
 - Mechanical Engineering

KEY DATES

Registration Deadline: June 7, 2025

Camera-Ready Submission Deadline: June 10, 2025

Main Conference: June 20-22, 2025

PUBLICATION

All accepted and presented papers will be included in [CoMEA 2025 conference proceedings](#) (ISBN: 979-8-3315-9917-1), which will be published by [IEEE](#) and submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements, and also submitted to Ei Compendex and Scopus for indexing. Accepted and selected extended papers can be recommended to publish in the following journal: "[International Journal of Vehicle Systems Modelling and Testing](#)" (ISSN: 1745-6444).

SUBMISSION

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SUBMISSION GUIDELINES

1. Manuscripts submitted to the conference should be written in English only.
2. Manuscripts submitted to the conference should follow the template provided: Full Paper Template, Abstract Template
3. Manuscripts can be submitted in Doc, Docx and PDF format.
4. Oral or Poster presentations should be nominated while submitting an abstract.
5. The ordinary length is suggested no less than 5 pages, including all figures, tables, references, and appendices. If the paper exceeds 5 pages, the additional pages will be charged at the time of registration.

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KEYNOTE SPEAKERS



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SPECIAL SESSIONS

For more information, please click [here](#)

Special Session I : Flight Dynamics, Planning and Control

Chair: Xiande Wu, Harbin Engineering University, China
Co-chair: Dong Ye, Harbin Institute of Technology, China

Special Session III : Transdielectric Dynamics and Applications

Chair: Yao Shi, Northwestern Polytechnical University, China
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Special Session V : Industrial Vision-based Measurement Technologies and Applications

Chair: Guofeng Zhang, Xi'an Jiaotong University, China
Co-chair: Hongwei Zhao, Aircraft Strength Research Institute of China, China

Special Session VII: Functional Polymers and Composites

Chair: Bing Wang, Fuzhou University, China
Co-chair: Chenglong Guan, Fuzhou University, China

Special Session IX: Vibration/Noise Control and Applications

Chair: Zhijing Wu, Harbin Engineering University, China
Co-chair: Fengming Li, Harbin Engineering University, China

Special Session XI: Innovations in Compressible Multiphase Flows: Modeling, Simulation, and Applications

Chair: Bing Wang, Tsinghua University, China

Special Session XIII: Lightweight and Multi-functional Composite Structures

Chair: Jian Xiong, Harbin Institute of Technology, China
Co-chairs: Jin-Shui Yang, Harbin Engineering University, China
Qian-Qian Wu, Harbin Institute of Technology, China

Special Session XV: Navigation, Guidance and Control

Chair: Lanyong Zhang, Harbin Engineering University, China
Co-chair: Zhen Wang, Zhengzhou University of Aeronautics, China

Special Session XVII : Smart Materials and Structural Design

Chair: Xiaozhou Xin, Harbin Institute of Technology, China
Co-chairs: Cheng Lin, Harbin Institute of Technology, China
Wei Zhao, Harbin Institute of Technology, China

Special Session XIX: Multi-scale and Multi-physics Modelling of Aerospace Composite Materials and Structures

Chair: Xiaoyu Cui, Tongji University, China
Co-chair: Jie Zhi, Tongji University, China

Special Session XXI: Aerothermodynamics of Advanced Aero-Engines

Chair: Jinglei Xu, Nanjing University of Aeronautics and Astronautics, China
Co-chair: Limin Gao, Northwestern Polytechnical University, China

Special Session II : Modeling and Simulation of Solid Rocket Motors and Propellants

Chair: Wen Ao, Northwestern Polytechnical University, China
Co-chair: Wenjing Yang, Northwestern Polytechnical University, China

Special Session IV : Intelligent Design Optimization of Aerospace Mechanical Structures

Chair: Zunyi Duan, Northwestern Polytechnical University, China
Co-chairs: Zhixun Yang, Harbin Engineering University, China
Kun Yan, Dalian University of Technology, China
Chengjun Zeng, Harbin Institute of Technology, China

Special Session VI: Aerospace Structural Measurement and Control

Chair: Hongli Ji, Nanjing University of Aeronautics and Astronautics, China
Co-chair: Chao Zhang, Nanjing University of Aeronautics and Astronautics, China

Special Session VIII: Detonation Combustion and Propulsion Technology

Chairs: Jianping Wang, Peking University, China
Guilai Han, Institute of Mechanics, Chinese Academy of Sciences, China / University of Chinese Academy of Sciences, China

Special Session X : Dynamic and Control of Spacecraft

Chair: Yi Ji, Harbin Institute of Technology, China
Co-chairs: Keying Yang, Beijing Institute of Technology, China
Huan Zhang, Beijing Institute of Technology, China

Special Session XII: Hypersonic Design Technology

Chair: Yancheng You, Xiamen University, China
Co-chair: Zhansen Qian, Chinese Aeronautical Establishment, China

Special Session XIV : New Aeronautics and Astronautics Propulsion and Combined-cycle Propulsion Technologies

Chairs: Xianggeng Wei, Northwestern Polytechnical University, China
Baoyuan Wu, Academy of Aerospace Propulsion Technology, China
Co-chair: Jian An, Northwestern Polytechnical University, China

Special Session XVI : Multi-scale Simulation of Polymer-based Nanocomposites in the Aerospace Field

Chair: Chenliang Li, Harbin Engineering University, China
Co-chairs: Zailing Yang, Harbin Engineering University, China
Chaoyin Wang, Harbin Engineering University, China

Special Session XVIII: Intelligent Perception and Planning of Unmanned Aerospace Systems

Chair: Weiran Yao, Harbin Institute of Technology, China
Co-chair: Yankun Wang, Harbin Institute of Technology, China

Special Session XX: Guidance and Intelligent Control of Cross-domain/Trans-media Morphing Aircraft

Chair: Yuliang Bai, Harbin Institute of Technology, China
Co-chairs: Xin Zhang, Nanjing University of Aeronautics and Astronautics, China
Hongyu Zhou, Harbin Institute of Technology, China

Special Session XXII: Aerodynamics and Flight Mechanics of Low Altitude Aircraft

Chair: Bao Chen, AVIC Aerodynamics Research Institute, China
Co-chair: Liguo Zhang, Beijing Institute of Technology, China

CONFERENCE SCHEDULE

All-time slots are for your reference and are subject to the final approval by the committee.

Jun. 20, 2025	
10:00-19:00	Sign-in & Conference Kits Collection
Jun. 21, 2025	
9:00-9:40	Opening Ceremony & Address
9:40-10:20	Keynote Sessions (Bin Li)
10:20-10:40	Group Photo & Coffee Break
10:40-12:00	Keynote Sessions (Wenhui Ling, Zonglin Jiang)
12:00-14:00	Lunch
14:00-15:20	Keynote Sessions (Jinglei Xu, Guang Pan)
15:20-15:40	Coffee Break
15:40-17:00	Keynote Sessions (Bing Wang, Shuguang Chen)
17:00-18:20	Keynote Sessions (Shipeng Li, Ping'an Liu)
18:20-20:00	Dinner
Jun. 22, 2025	
9:00-12:00	Special Sessions
12:00-14:00	Lunch
14:00-17:00	Special Sessions
17:00-17:30	Closing & Award Ceremony
17:30-20:00	Dinner

CONFERENCE VENUE

Harbin Victories Hotel

Address: No. 301, Hongqi Avenue, Nangang District, Harbin City, Heilongjiang Province



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