



**The 5th International Conference on Data-Driven Computing and Machine
Learning in Engineering
(DACOMA-25)**

Conference First Announcement

In the age of big data, machine learning technology has been effectively utilized in various fields such as image processing, genomics, engineering computing, macroeconomic forecasting, and medical diagnosis. However, despite its success, applying data-driven computing and machine learning in engineering analytics still presents many unresolved challenges. With the aim of promoting research and the application of big data analysis, data-driven computing, and artificial intelligence in engineering, as well as fostering scientific exchanges among scientists, practitioners and engineers from related disciplines, the International Conference on Data-Driven Computing and Machine Learning in Engineering (DACOMA) conference has been successfully held since 2019.

The 1st DACOMA, Shanghai, China, 2019.

The 2nd DACOMA, Beijing, China, 2022.



The 3rd DACOMA, Beijing, China, 2023.

The 4th DACOMA, Nanjing, China, 2024.

The 5th International Conference on Data-Driven Computing and Machine Learning in Engineering (DACOMA-25) will be held in Beijing, the capital of China, 10-12 October, 2025. DACOMA-25 will be hosted by Chinese Society of Theoretical and Applied Mechanics, Beijing Society of Theoretical and Applied Mechanics, Tsinghua University, and jointly organized by Peking University, Beijing International Center for Theoretical and Applied Mechanics, Leibniz University Hannover, Tongji University, Bauhaus University Weimar, Beijing Institute of Technology, German Association of Computational Mechanics, Chinese Association of Computational Mechanics and Beijing Society of Theoretical and Applied Mechanics. The conference will be held with Professor Zhuo Zhuang and Professor Timon Rabczuk, prominent scholars in the field of computational mechanics, serving as the conference chairs. This year's conference will continue to focus on machine learning and AI in general for relevant topics in Engineering and Science.

We sincerely invite experts, colleagues, and students in the fields of data-driven computational mechanics and machine learning to participate in the conference. We are looking forward to seeing you in Beijing. We believe that you will enjoy the wide variety of activities of the DACOMA-25, as well as your stay in this elegant city.

Conference Chairs

			
Zhuo Zhuang		Timon Rabczuk	
Tsinghua University		Bauhaus University Weimar	
Guidance Unit	Beijing Association for Science and Technology		
Organizer	Chinese Society of Theoretical and Applied Mechanics		

	Beijing Society of Theoretical and Applied Mechanics Tsinghua University
Co-Organizer:	Peking University Beijing International Center for Theoretical and Applied Mechanics Leibniz University Hannover Tongji University Bauhaus University Weimar Beijing Institute of Technology German Association of Computational Mechanics Chinese Association of Computational Mechanics
Organizing Committee Members	Xiaoming Liu, Yaoming Zhao, Zibing Zhang, Zhanli Liu, Shaoqiang Tang, Xiaoying Zhuang, Yufeng Huang, Jing Xie, Jie Chen, Yewen Zhang, Mengwei Li
Supporting agency:	To be updated
Conference Venue:	Beijing Civil Aviation International Conference Center
Conference Dates:	October 10 th to October 12 th , 2025
Conference Website:	www.dacoma.org.cn

Topics

The topics of DACOMA-25 including but not restricted to

- Data-Driven Computing and Simulating
- Digital Twin Modeling
- Data-Driven Engineering Applications
- Data-Driven Constitutive Models
- Machine Learning-Based Solution for Partial Differential Equations
- Machine Learning-Based Metamaterials and Advanced Materials Design

- Data-Driven Techniques in Multiscale and Multiphysics Simulations
- Data-Driven Techniques for Continuous and Discrete Methods
- Data-Driven Design and Optimization
- Visualization and Analysis of Multi-source Data
- Multi-source Information Fusion Methods
- AI for Design of Non-Hermitian Metamaterials and Bio-inspired Metastructures
- Machine Learning Computing for Damage and Fracture Mechanics

Plenary Speakers



Klaus Hackl
European Academy of
Sciences and Arts



Guowei He
Institute of Mechanics,
Chinese Academy of Sciences



Zhuo Zhuang
Tsinghua University



Timon Rabczuk
Bauhaus University
Weimar



Shaoqiang Tang
Peking University



Weisheng Zhang
Dalian University of
Technology



Yanping Lian
Beijing Institute of
Technology

Ongoing update...

Important Dates

- Abstract Submission Deadline: **20 September, 2025**
- Abstract Acceptance Notice: **25 September, 2025**
- Early-Bird Registration: **Before 31 August, 2025**

- Regular Registration: **From 31 August, 2025 to 30 September, 2025**
- Late and On-Site Registration: **After 1 October, 2025**
- DACOMA-25 Conference Date: **10-12 October, 2025**

Registration Fee and Payment option

Registration Type	Early-Bird Registration	Regular Registration	Late and On-Site Registration
Full Delegate	2700 CNY or 380 USD	3000 CNY or 420 USD	3200 CNY or 450 USD
Student Delegate	1300 CNY or 190 USD	1500 CNY or 210 USD	1600 CNY or 230 USD

The full payment of registration fee covers: access to all technical sessions, refreshment breaks, lunch & supper, and one copy of the conference material. The registration fee does not include insurance for the participants regarding accidents, sickness or loss of personal property. It is advisable that participants make their own arrangements in respect of health and travel insurance before leaving their countries.

Two payment options are supported: QR code payment and transfer remittance. For QR code payment or transfer remittance, please be sure to fill in the payment information in the remarks as required.

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Full Delegate



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For individual transfers: DACOMA + registered mobile phone number

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Abstract Submission**TOPICS**

1. Data-Driven Computing and Simulating
2. Digital Twin Modeling
3. Data-Driven Engineering Applications
4. Data-Driven Constitutive Models
5. Machine Learning-Based Solution for Partial Differential Equations
6. Machine Learning-Based Metamaterials and Advanced Materials Design
7. Data-Driven Techniques in Multiscale and Multiphysics Simulations
8. Data-Driven Techniques for Continuous and Discrete Methods
9. Data-Driven Design and Optimization
10. Visualization and Analysis of Multi-source Data
11. Multi-source Information Fusion Methods
12. AI for Design of Non-Hermitian Metamaterials and Bio-inspired Metastructures
13. Machine Learning Computing for Damage and Fracture Mechanics

submission website: www.dacoma.org.cn

article template in the attachment

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Beijing Civil Aviation International Conference Center

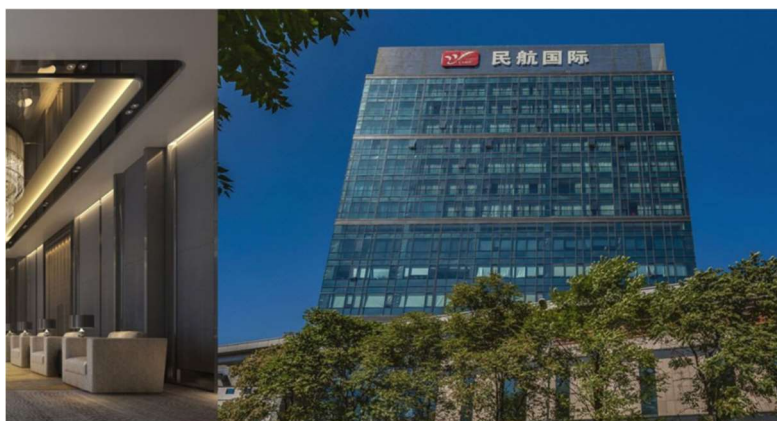
Address: No. 3, Huajiadi East Road, Chaoyang District, Beijing

Accommodation :

Accommodation Standard	fee
Five-star standard with single breakfast	550CNY
Five-star standard with double breakfast	650CNY
Three-star standard with single breakfast	400CNY
Three-star standard with double breakfast	450CNY
reservation contact: Zecheng Zhang, 17319207850	



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Contact Information

Zhanli Liu, Tel: 188-1158-4467

Mengwei Li, Tel: 130-5106-5183 (Registration)

Fucong Lu, Tel:136-9336-9455 (Registration)

Yizhi Zhang, Tel:159-0105-2377 (Registration)

Jialiang Sun, Tel:132-0689-9016 (Abstract & Poster submission)

Zecheng Zhang, Tel: 173-1920-7850 (Accommodation, transportation)

Conference Organizing Committee

August 11, 2025

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Attachment

Paper Title (14 Pt Arial, Bold, Centered)

Author name¹, Author name^{2,*}, Author name³, and Author name⁴

¹ College of Mechanics and Engineering Science, Beijing 100080, China.

² Affiliation, address

³ Affiliation, address

⁴ Affiliation, address

*Corresponding author's email: dacoma2025@xxx.edu.cn

ABSTRACT

All abstracts and papers must be presented in English, should not exceed 500 words, and must fit on this single page along with the other information required for this page. The first page includes only the title, authorship, contact information, abstract, and keywords. Please put “(corresponding author)” behind the contact information of the corresponding author as shown above. Email addresses are optional but encouraged for the corresponding author. Authors that have the same affiliation can be listed on the same line. The paper introduction section will start on the second page. Do not add page numbers. The abstract and paper as defined here must be submitted in its final form; it will appear in the proceedings as submitted without significant alteration. All authors must check it carefully before submitting it. Papers will only be included in the final proceedings if at least one of the authors participates and presents the paper at DACOMA2025.

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