



## 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 communications among scientists, practitioners and engineers from related fields, the first International Conference on Data-Driven Computing and Machine Learning in Engineering (DACOMA) conference was held in 2019 in Shanghai, China and was hosted by Tongji University, with Prof. Hehua Zhu and Prof. Timon Rabczuk as its chairs. The second DACOMA conference was hosted by Tsinghua University in 2022, with Prof. Zhanli Liu and Prof. Xiaoying Zhuang as its chairs. The third DACOMA conference was hosted by Beijing Institute of Technology in 2023, with Prof. Pengwan Chen, Prof. Zhanli Liu and Prof. Xiaoying Zhuang as its chairs.

The fourth International Conference on Data-Driven Computing and Machine Learning in Engineering (DACOMA-24) will be held in Nanjing, Jiangsu Province, China, from 12-14 October, 2024. DACOMA-24 will be hosted by Hohai University, and jointly organized by Leibniz University Hannover, Tongji University, Bauhaus University Weimar, Tsinghua University, Beijing Institute of Technology, German Association of Computational Mechanics, Chinese Association of Computational Mechanics and Jiangsu Society of Theoretical and Applied Mechanics. The conference will be held with Prof. Hongwu Tang from Hohai University,

Prof. Timon Rabczuk from Bauhaus University Weimar and Prof. Hehua Zhu from Tongji University 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 Nanjing. We believe that you will enjoy the wide variety of activities of the DACOMA-24, as well as your stay in this elegant city.

<b>Organized by:</b>	Hohai University Leibniz University Hannover Tongji University Bauhaus University Weimar Tsinghua University Beijing Institute of Technology German Association of Computational Mechanics Chinese Association of Computational Mechanics Jiangsu Society of Theoretical and Applied Mechanics
<b>Supporting Agency:</b>	To be updated
<b>Conference Venue:</b>	Hohai University, Gulou District, Nanjing, China
<b>Conference Date:</b>	12-14 October, 2024
<b>Conference Website:</b>	<a href="http://www.dacoma.org.cn">www.dacoma.org.cn</a> (coming soon)

## Topics

The topics of DACOMA-24, including but not restricted to

1. Dynamic Data-Driven Computing
2. Uncertainty Analysis of Geomechanical Model
3. Data-Driven Engineering Applications
4. Data-Driven Constitutive Models
5. Machine Learning-Based Solution for Partial Differential Equations
6. Machine Learning-Based Image Reconstruction of Materials
7. Machine Learning-Based Metamaterials and Advanced Materials Design
8. Data-Driven Techniques in Multiscale and Multiphysics Simulations
9. Visualization and Analysis of Multi-source Data
10. Big Data Design and Optimization
11. Data-Driven Simulation Techniques
12. Machine Learning for Materials Characterization
13. Data-Driven Techniques for Continuous and Discrete Methods
14. High Performance Data Processing

## Important Dates

- Abstract Submission Deadline: ~~10 August, 2024~~ **30 August, 2024**
- Abstract Acceptance Notice: ~~20 August, 2024~~ **10 September, 2024**
- Early-Bird Registration: **Before 15 August, 2024**
- Regular Registration: **From 16 August, 2024 to 30 September, 2024**
- Late and On-Site Registration: **After 1 October, 2024**
- DACOMA-24 Conference Date: **12-14 October, 2024**

**Plenary Speakers (in alphabetical order by surname)**



**Professor Wanlin Guo**  
Nanjing University of  
Aeronautics and Astronautics



**Professor Xu Guo**  
Dalian University of  
Technology



**Professor Timon Rabczuk**  
Bauhaus University Weimar



**Professor Saiyu Yuan**  
Hohai University



**Professor George Z.H. Zhu**  
York University



**Professor Hehua Zhu**  
Tongji University



**Professor Zhuo Zhuang**  
Tsinghua University

**Ongoing update...**

## Registration Fee and Payment option

Registration Type	Early-Bird Registration (Before 15 August, 2024)	Regular Registration (From 16 August, 2024 to 30 September, 2024)	Late and On-Site Registration (After 1 October, 2024)
<b>Full Delegate</b>	2000 CNY or 280 USD	2300 CNY or 320 USD	2500 CNY or 350 USD
<b>Student Delegate</b>	1000 CNY or 140 USD	1200 CNY or 170 USD	1400 CNY or 200 USD

The full payment of registration fee covers: access to all technical sessions, refreshment breaks, banquet, 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. Three payment options are supported: **QR code payment**, **transfer remittance (USD)** and **on-site payment**.

- For **QR code payment**, please send the payment record (student delegate are required to provide student certificate) to Dr. Chen (chenhanshu@hhu.edu.cn).

**QR code:**



- For **payment by transfer (USD)**, please be sure to indicate payment information (DACOMA2024+Name) in the remittance message, and send the bank transfer relevant (student delegate are required to provide student certificate) to Dr. Chen (chenhanshu@hhu.edu.cn).

**Overseas participants remitting information in USD:**

**BENEFICIARY'S BANK:** China construction bank, Jiangsu branch, Xinjiekou subbranch

**BENEFICIARY'S A/C NO:** 32050159403600004026

**BENEFICIARY'S NAME:** Jiangsu Society of Theoretical and Applied Mechanics

**BENEFICIARY'S ADDRESS IN CHINA OR TELEPHONE NUMBER:** No. 1 Xikang Road, Nanjing, Jiangsu Province. 0086-025-83786951

**SWIFT CODE:** PCBCCNBJJSX

上述为美元账户，人民币转账请联系宋老师 (jslxxh@163.com)。

- For **on-site payment**, POS machine is supported.

## Hotel

Room Type	Agreement Price
<b>Superior King Size Bed Room (Single Breakfast)</b>	380 CNY per night
<b>Superior Twin Bed Room (Double Breakfast)</b>	440 CNY per night
<b>Deluxe King Size Bed Room (Single Breakfast)</b>	490 CNY per night

The conference will be held at Hohai University. A conference agreement price is provided for the [Junheng Hotel Nanjing](#). For hotel reservation, please send your hotel booking information (Appendix) to Dr. Xi (xiqiang1994@126.com). Since hotel rooms are very limited, an earlier booking is highly encouraged.

## Visa Application

Dr. Ma (zhiyuan.ma@hhu.edu.cn) will offer the certification to help you getting the visa to attend the conference in Nanjing, China.

## Contact Information

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## Appendix

Name	
Institution	
Phone Number	
Contact Email	
Registration Type	<input type="checkbox"/> Full Delegate <input type="checkbox"/> Student Delegate
Room Type	
Check-in Date	
Check-out Date	
Special Requirement	

**Paper Title (14 Pt Arial, Bold, Centered)**

**Author name<sup>1</sup>, Author name<sup>2,\*</sup>, Author name<sup>3</sup>, and Author name<sup>4</sup>**

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**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 DACOMA2024.

**All content must be approved for open/unrestricted distribution.**

**Keywords:** International, Conference, DACOMA, Nanjing