

第七届全国颗粒材料计算力学会议暨第四届计算颗粒技术国际研讨会 第一轮通知

The 7th National Conference on Computational Mechanics of Granular Materials in conjunction with The 4th International Symposium on Computational Particle Technology (CMGM-2024 & CPT-2024) First Round Announcement

经中国力学学会批准，由中国力学学会计算力学专业委员会颗粒材料计算力学专业组和江苏省力学学会主办，河海大学、蒙纳士大学和中国颗粒学会承办的第七届全国颗粒材料计算力学会议（CMGM-2024）暨第四届计算颗粒技术国际研讨会（CPT-2024）将于2024年5月31日至6月3日在江苏省南京市召开。

本次会议将以“颗粒材料计算力学与工程科技前沿”为主题，聚焦颗粒材料的力学理论及模型、计算分析与软件开发、工程应用和相关前沿方向中的关键科学问题和难点问题，开展广泛的学术交流和讨论。会议旨在为国内外同行提供一个开放的交流平台，通过对当前颗粒材料计算力学及工程应用的研究现状和发展趋势的交流，凝炼颗粒力学中新的研究方向，确定相应的关键力学问题，推动颗粒材料计算力学在基础理论、数值方法和工程应用中的发展，促进与其它学科的交叉融合。为促进本领域年轻学者特别是研究生的成长，会议将评选优秀学生论文和优秀报告并给予奖励。

欢迎国内外从事颗粒材料计算力学及工程应用相关领域研究的专家学者及研究生踊跃参加！CMGM-2024 & CPT-2024欢迎您！南京欢迎您！

主办单位：中国力学学会计算力学专业委员会颗粒材料计算力学专业组
江苏省力学学会

承办单位：河海大学 蒙纳士大学 中国颗粒学会

协办单位：东南大学 江西理工大学 东北大学 大连理工大学中白科研与创新中心
工业装备结构分析优化及CAE软件全国重点实验室 持续更新中...

赞助单位：持续更新中...

会议地点：江苏省 南京市 上秦淮假日酒店

会议时间：2024年5月31日至6月3日

会议网站：www.cmgm2024.com



With the approval of the Chinese Society of Theoretical and Applied Mechanics, the 7th National Conference on Computational Mechanics of Granular Materials (CMGM-2024) in conjunction with the 4th International Symposium on Computational Particle Technology (CPT-2024) will be held in Nanjing, Jiangsu Province, China, from May 31st to June 3rd, 2024. CMGM-2024 & CPT-2024 will be hosted by the Panel of Computational Mechanics on Granular Materials of the Chinese Society of Theoretical and Applied Mechanics and Jiangsu Society of Theoretical and Applied Mechanics, and organized by Hohai University, Monash University, and Chinese Society of Particuology.

The theme of this conference will be “the Frontiers in Computational Mechanics and Engineering Technology of Granular Materials”. It will focus on the critical scientific and technical issues in mechanical theories and models, computational analysis and software development, engineering applications as well as related frontiers of granular materials. The conference provides an opportunity for both domestic and international researchers to exchange academic ideas about the challenges and the cutting-edge advances in the area. The conference is expected to be able to extract the promising research directions in granular mechanics, identify the fundamental issues, facilitate the progress in theoretical foundations, numerical methodologies, engineering applications, and interdisciplinary fusion in computational mechanics of granular materials. To support the development of young scholars in the area, especially graduate students, the conference will select and award outstanding papers and presentations.

We sincerely invite experts, colleagues, and students in the field of computational mechanics of granular materials and engineering applications 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 CMGM-2024 & CPT-2024, as well as your stay in this elegant city.

Sponsored by:	Panel of Computational Mechanics on Granular Materials, Working Party of Computational Mechanics, Chinese Society of Theoretical and Applied Mechanics Jiangsu Society of Theoretical and Applied Mechanics
Organized by:	Hohai University Monash University Chinese Society of Particuology
Co-organized by:	Southeast University Jiangxi University of Science and Technology Northeast University

DUT-BSU Scientific Research and Innovation Center
State Key Laboratory of Structural Analysis, Optimization
and CAE Software for Industrial Equipment

[Ongoing update...](#)

Supporting agency: [Ongoing update...](#)

Conference Venue: Holiday Inn Nanjing Qinhuai South Suites, Nanjing, China

Conference Dates: May 31st to June 3rd, 2024

Conference Website: www.cmgm2024.com



一. 会议组织机构

1. 名誉主席

李静海

郑晓静

李锡夔

2. 会议主席

唐洪武

余艾冰

3. 执行主席

许文祥

刘斯宏

周宗彦

4. 国际学术咨询委员会

主 席:

Liang-Shih Fan

Liejin Guo

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Xiaodong Chen

Jennifer Curtis

Raj Dave

Alain De Ryck

Kejun Dong

Itai Einav

Tim Evans

Yuqing Feng

Yuntian Feng

Rodney O. Fox

S.A. Galindo-Torres

Wei Ge

Rod Guthrie

Karen Hapgood

Stefan Heinrich

Masayuki Horio

J.A.M. (Hans) Kuipers

Yang Jiao

Hidenhiro Kamiya

Jim Litster

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Tang-Tat Ng

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Renhu Pan

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Phil Schwarz

Yansong Shen

Toshitsugu Tanaka

Geoff Wang

Fei Wei

Peter Witt

Charley Wu

Runyu Yang

Jidong Zhao

Paul Zulli

Ruiping Zou

持续更新中...

5. 国内学术委员会

主 席:

周又和

刘加平

钟文琪

蒋金洋

委 员: (按姓氏首字母排序)

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陈惠苏

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段庆林

鄂殿玉

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冯 春

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刘 琳

刘 春

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孙其诚	谭援强	田泽安	佟振博	王 博	王 胤
王 媛	王等明	王凤娟	王剑锋	王利民	王宇杰
王晓亮	徐春晖	徐 宁	薛 琨	徐文杰	许文祥
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张 浩	张 洁	张 雪	张 勇	张嘉文	赵春发
赵红华	赵仕威	赵婷婷	赵永志	郑 虎	周 博
周 伟	周宗彦				

持续更新中...

6. 会议组委会

主 席：

雷 冬 郑奇军

副主席：

苟晓凡 殷德顺 王柳江

会务秘书长：

许 诺

委 员：（按姓氏首字母排序）

陈少华	陈 江	程国坚	冯滔滔	巩佳琨	顾 越
胡栋梁	焦璐璐	匡世波	李 民	李明祺	林 继
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王嗣强	王 涛	薛 峰	杨柳依梅	袁维海	张 沛
朱志刚					

Conference Organization

1. Honorary Chairmen

Jinghai Li Xiaojing Zheng Xikui Li

2. Chairmen

Hongwu Tang Aibing Yu

3. Executive Chairmen

Wenxiang Xu Sihong Liu Zongyan Zhou

4. International Academic Advisory Committee

Chairmen:

Liang-Shih Fan Liejin Guo

Members: (In Alphabetical Order by Last Name)

Xiaodong Chen	Jennifer Curtis	Raj Dave	Alain De Ryck
Kejun Dong	Itai Einav	Tim Evans	Yuqing Feng
Yuntian Feng	Rodney O. Fox	S.A. Galindo-Torres	Wei Ge
Rod Guthrie	Karen Hapgood	Stefan Heinrich	Masayuki Horio
J.A.M. (Hans) Kuipers	Yang Jiao	Hidehiro Kamiya	Jim Litster
Stefan Luding	Tang-Tat Ng	Jin Ooi	Renhu Pan
Mikio Sakai	Phil Schwarz	Yansong Shen	Toshitsugu Tanaka
Geoff Wang	Fei Wei	Peter Witt	Charley Wu
Runyu Yang	Jidong Zhao	Paul Zulli	Ruiping Zou

[Ongoing update...](#)

5. Domestic Academic Committee

Chairmen:

Youhe Zhou Jiaping Liu Wenqi Zhong Jinyang Jiang

Members: (In Alphabetical Order by Last Name)

Xizhong An	Huisu Chen	Hongyang Cheng	Xihua Chu
Qinglin Duan	Dianyu E	Fengxian Fan	Chun Feng
Zhuojia Fu	Zhengguo Gao	Xiaofan Gou	Xiaoqiang Gu
Ning Guo	Yu Guo	Decai Huang	Meiying Hou
Maobin Hu	Lu Jing	Shunying Ji	Mingjing Jiang

Sheng Jiang	Dong Lei	Jian Li	Xia Li
Shihai Li	Shuixiang Li	Yanjie Li	Junlin Lin
Lin Liu	Chun Liu	Chuanqi Liu	Moubin Liu
Sihong Liu	Zhiyong Liu	Zeyu Lu	Gang Ma
Liuchao Qiu	Tongming Qu	Xiusong Shi	Chaomin Shen
Guowen Sun	Hongguang Sun	Qicheng Sun	Yuanqiang Tan
Zean Tian	Zhenbo Tong	Bo Wang	Yin Wang
Yuan Wang	Dengming Wang	Fengjuan Wang	Jianfeng Wang
Limin Wang	Yujie Wang	Xiaoliang Wang	Chunhui Xu
Ning Xu	Kun Xue	Wenjie Xu	Wenxiang Xu
Hui Yang	Zhongxuan Yang	Xiaoyan Ye	Zhenyu Yin
Jianqun Yu	Mengyan Zang	Hao Zhang	Jie Zhang
Xue Zhang	Yong Zhang	Jiawen Zhang	Chunfa Zhao
Honghua Zhao	Shiwei Zhao	Tingting Zhao	Yongzhi Zhao
Hu Zheng	Bo Zhou	Wei Zhou	Zongyan Zhou

Ongoing update...

6. Conference Organizing Committee

Chairman:

Dong Lei Qijun Zheng

Vice Chairmen:

Xiaofan Gou Deshun Yin Liujiang Wang

Secretary-General:

Nuo Xu

Members: (In Alphabetical Order by Last Name)

Shaohua Chen	Jiang Chen	Guojian Cheng	Taotao Feng
Jiakun Gong	Yue Gu	Dongliang Hu	Lulu Jiao
Shibo Kuang	Min Li	Mingqi Li	Ji Lin
Jianjun Lin	Jiaying Liu	Lu Liu	Minsu Liu
Jianmin Long	Zhong Lv	Yaru Lv	Lingyi Meng
Chaomin Shen	Xianglong Su	Lian Wang	Liguo Wang
Siqiang Wang	Tao Wang	Feng Xue	Liuyimei Yang
Weihai Yuan	Pei Zhang	Zhigang Zhu	

二. 研讨主题（包括但不限于以下主题）

1. 颗粒材料力学基本理论模型

- MS01 颗粒材料基本物理力学性质
- MS02 颗粒材料流变与多相流动力学模型
- MS03 颗粒材料的相变特征
- MS04 颗粒材料的宏-细-微观尺度关联
- MS05 颗粒材料的均匀化方法与连续介质模型

2. 颗粒材料计算方法与工业软件

- MS06 离散元方法及其发展趋势
- MS07 基于粒子的计算方法
- MS08 颗粒材料的多尺度建模与计算
- MS09 颗粒材料与流体耦合计算方法
- MS10 颗粒材料的高性能数值计算及软件开发

3. 计算颗粒技术的工程应用

- MS11 土木与结构工程中的颗粒材料计算及应用
- MS12 岩土工程中的颗粒材料计算及应用
- MS13 水利与海洋工程中的颗粒材料计算及应用
- MS14 能源、化工等过程工程中的颗粒材料计算及应用
- MS15 环境灾害中的颗粒材料计算及应用
- MS16 机械与农业工程中的颗粒材料计算及应用
- MS17 其他工程领域中的颗粒材料计算及应用

4. 计算颗粒技术发展前沿

- MS18 基于数据驱动的颗粒材料本构模型和计算方法
- MS19 颗粒材料多尺度和多物理场分析中的数据驱动技术
- MS20 颗粒材料的先进制备和表征前沿技术
- MS21 基于颗粒的超材料设计与应用
- MS22 颗粒材料增材制造与数字孪生技术

Topics (including but not limited to the following topics)**1. Basic theoretical models of mechanics of granular materials**

- MS01 Basic physical and mechanical properties of granular materials
- MS02 Model of rheology and multiphase flow of granular materials
- MS03 Phase transition characteristics of granular materials
- MS04 Macro-meso-microscale correlation of granular materials
- MS05 Homogenization method and continuum model of granular materials

2. Numerical methods and industrial software for granular materials

- MS06 Discrete element method and its development trend
- MS07 Particle-based numerical methods
- MS08 Multi-scale modeling and computation of granular materials
- MS09 Numerical methods for granular materials coupled with fluids
- MS10 High-performance numerical calculation and software development of granular materials

3. Computational particle technology and engineering applications

- MS11 Computational technology of granular materials in civil and structural engineering
- MS12 Computational technology of granular materials in geotechnical engineering
- MS13 Computational technology of granular materials in water conservancy and ocean engineering
- MS14 Computational technology of granular materials in process engineering such as energy and chemical engineering
- MS15 Computational technology of granular materials in environmental hazards
- MS16 Computational technology of granular materials in mechanical and agricultural engineering
- MS17 Computational technology of granular materials in other engineering fields

4. Frontiers in computational particle technology

- MS18 Data-driven constitutive models and numerical methods of granular materials
- MS19 Data-driven techniques in multi-scale and multi-physical field analysis of granular materials
- MS20 Advanced preparation, characterization technologies of granular materials
- MS21 Particle-based metamaterial design and application
- MS22 Particle-based additive manufacturing and digital twin technology

三. 重要日期

1. 会议通知 2023 年 12 月, 发布会议第一轮通知
2. 摘要提交 2024 年 3 月 31 日 前
3. 全文提交 2024 年 4 月 30 日 前
4. 会议注册 2024 年 1 月 1 日 起
5. 会议时间 2024 年 5 月 31 日 (星期五) 报到
2024 年 6 月 1 日 - 3 日 会议

Important Dates

1. Conference Announcement December 2023, release First Round Announcement
2. Abstract Submission Deadline March 31th, 2024
3. Paper Submission Deadline April 30th, 2024
4. Registration From January 1st, 2024
5. Conference Schedule May 31st (Friday), 2024 On-Site Registration
June 1st to 3rd, 2024 Conference

四. 会议组织形式

本次会议采用主会场和分会场相结合的交流方式。

1. 主会场: 大会特邀报告;
2. 分会场: 邀请报告和专题报告;
3. 墙报交流;
4. 科学仪器及计算平台展览展示。

Organizing Committee

This conference adopts a combination of main venue and sub-venue.

1. Main venue: Plenary lectures;
2. Sub-venue: keynote speech and oral presentation;
3. Poster presentation;
4. Scientific instruments and computing platform exhibition.

五. 会议投稿

请您登录大会官网（www.cmgm2024.com）进行论文投稿，提交稿件时文件名称按“主题编号-作者姓名-题目”的格式书写，（例如：MS01-张三-颗粒材料基本理论模型的研究进展）。

本次会议将评选优秀学生报告若干名，会议闭幕式上颁发荣誉证书和纪念品。参评人需同时满足以下条件：(1) 在读研究生；(2) 提交的学术论文为第一作者；(3) 会上宣读论文。

Paper Submission

Please login the official website of the conference (www.cmgm2024.com) to submit your abstract or paper, and the title of the submission should be in the format of “Topic Number - Author Name - Title” (e.g., MS01 - San Zhang - Research Progress in Basic Theoretical Models of Granular Materials).

This conference will select several outstanding student reports, and award honorary certificates and souvenirs at the closing ceremony. Candidates should meet the following conditions: (1) graduate student; (2) the first author of the paper submitted; (3) the paper is presented at the conference.

六. 联系方式

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