



MEETING NOTICE

2026 SEG 6th International Workshop on Mathematical Geophysics

16-18 September 2026 | Beijing · China

WORKSHOP DESCRIPTION

The SEG 6th International Workshops on Mathematical Geophysics (IWMG) will take place on 16 – 18 September 2026 in Beijing. Centered on the theme of foundation models for mathematical geophysics, this workshop focuses on advancing geophysical data processing, inversion, and interpretation through next-generation artificial intelligence.

As geophysical problems grow in scale and complexity—characterized by strong non-linearity, incomplete observations, and uncertainty—emerging AI technologies such as foundation models, diffusion models, and generative learning offer new capabilities for extracting subsurface information from seismic and multi-physics data.

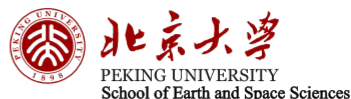
This workshop aims to explore how these modern AI tools can address core challenges in geophysics. By integrating large-scale learned representations with physical modeling and mathematical constraints, foundation models have the potential to provide more robust, transferable, and computationally efficient solutions than traditional workflows. Particular attention will be given to hybrid approaches that combine physics-based inversion with generative priors, neural operators, and probabilistic modeling frameworks.

The goal of this workshop is to foster interdisciplinary exchange and accelerate the adoption of advanced AI methodologies within the geophysical community. We invite students, researchers, and industry practitioners to share recent advances, discuss open challenges, and develop new perspectives on how foundation models and generative AI can reshape the future of geophysical exploration and subsurface characterization.

TECHNICAL SUBJECTS

- ▶ Foundation model
- ▶ Mathematics of AI
- ▶ Machine learning
- ▶ Data acquisition and processing
- ▶ Modeling, migration and inversion
- ▶ Seismic interpretation
- ▶ Seismology and AI
- ▶ Solid Earth and AI
- ▶ Planetary and AI
- ▶ Mathematical geophysics interdisciplinary

ORGANIZER



SEG.ORG/EVENTS

<https://www.seg-china.org.cn/events/calendar-106.html>



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GENERAL CO-CHAIRS

Song Xi Chen
Qiuming Cheng
Jianwei Ma
Suping Peng
Maurico Sacchi

TECHNICAL CO-CHAIRS

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Haijiang Zhang, University of Science and Technology of China
Zeyu Zhao, Peking University

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Development, PetroChina
Gulan Zhang, Southwest Petroleum University
Wei Zhang, Southern University of Science and Technology
Tariq Alkhalifah, KAUST

(Listed in alphabetical order by first name)

Event Venue: Hotel Name: Yinbao Jianguo Hotel Beijing

Address: Building 1, Courtyard 32, Jinfu Road, Shijingshan District, Beijing, China

Accommodation Booking

Superior King Room, CNY 500 per night (including one breakfasts)

Superior Twin Room, CNY 550 per night (including two breakfasts)

Contact: Ms. Wang, Tel: +86 13381311526 (When make room reservation, please mention "SEG Workshop" to enjoy the special rate)

REGISTER NOW

[Method 1]: Scan below QR Code with WeChat, Alipay or UnionPay to finish registration with RMB.



Standard Registration Rate	SEG Member	Non-SEG Member
Early Bird (register by 25 Aug 2026)	\$417	\$444
Full Registration (register on or after 26 Aug 2026)	\$472	\$500
Academic Registration	SEG Member	Non-SEG Member
Early Bird (register by 25 Aug 2026)	\$300	\$340
Regular Registration (register on or after 26 Aug 2026)	\$350	\$390
Student Registration	\$150	\$170

[Method 2]: Visit SEG global website at www.seg.org, find the event in calendar and register online with US\$.

[Method 3]: Corporate Transfer

Account Name: Beijing SEG Consulting Co. Ltd

Account No.: 110 916 318 410 506

Bank: Beijing Wanda Plaza Branch, China
Merchants Bank

Address: Room 102-107, Bld 7, No.93 Jianguo
road, Chaoyang District, Beijing, China

Tel: +861058206807

Swift Code: CMBCCNBS

(Please mark registrant's name when make payment.)



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会议通知

2026 SEG 第六届国际数学地球物理研讨会

2026年9月16-18日 | 中国·北京

主办单位



会议背景

第六届国际数学地球物理研讨会将于2026年9月16-18日在北京举行。本届会议以“数学地球物理的基础模型”为主题，聚焦通过新一代人工智能技术推动地球物理数据处理、反演与解释的发展。

随着地球物理问题规模与复杂度不断提升，呈现出强非线性、观测不完整及不确定性等特征，以基础模型、扩散模型、生成式学习为代表的新兴人工智能技术，为从地震及多物理场数据中提取地下信息提供了全新能力。

本次研讨会致力于深入探讨这些前沿人工智能工具如何有效应对地球物理学的核心挑战。通过将大规模数据驱动学习与物理建模及数学约束有机结合，基础模型有望突破传统工作流的局限，提供更稳健、迁移性更强且计算效率更高的解决方案。会议将特别关注结合物理反演与生成先验、神经算子及概率建模框架的混合方法研究。

研讨会旨在促进跨学科交流，推动先进人工智能方法在地球物理领域的落地应用。我们诚邀学生、科研人员及行业从业者分享最新进展、探讨开放难题，共同展望基础模型与生成式人工智能如何重塑地球物理勘探与地下表征的未来。

技术专题

- 基础模型
- 人工智能数学基础
- 机器学习
- 数据采集与处理
- 建模、偏移与反演
- 地震解释
- 地震学与人工智能
- 深地科学与人工智能
- 行星科学与人工智能
- 数学地球物理交叉学科



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2026 SEG 第六届国际数学地球物理研讨会

2026 年 9 月 16-18 日 | 中国 · 北京

大会主席

陈松蹊
成秋明
马坚伟
彭苏萍
Maurico Sacchi

技术主席

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王一博, 中国科学院地质与地球物理研究所
张海江, 中国科学技术大学
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李磊, 中国石油集团东方地球物理勘探有限责任公司

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张伟, 南方科技大学
Tariq Alkhalifah, KAUST

会议地点: 北京银保建国酒店(北京市石景山区金府路32号院1号楼)

住宿预订联系人: 王经理 13381311526, 说明参加SEG会议订房
高级大/双床房, 500元/晚(含单早) | 550元/晚(含双早)

注册参会

【报名通道1】通过微信/支付宝/云闪付等识别以下二维码报名



标准注册	SEG会员	非SEG会员
提前早注册(2026年8月25日前完成注册)	¥ 3,000	¥ 3,200
常规注册(2026年8月26日及之后注册)	¥ 3,400	¥ 3,600
学术界注册	SEG会员	非SEG会员
提前早注册(2026年8月25日前完成注册)	¥ 2,000	¥ 2,400
常规注册(2026年8月26日及之后注册)	¥ 2,500	¥ 2,800
学生注册	¥ 1,000	¥ 1,200

对公账号信息

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https://seg.org/calendar_events/2026-seg-6th-international-workshop-on-mathematical-geophysics

