2026 10th International Conference on High Performance Compilation, Computing and Communications

2026年第十届高性能编译、计算和通信国际会议

2026年6月24-26日
June 24-26, 2026

JINAN 济南

10 HP3C'26

Special Session 2: AI for Earth Sciences and Complex Systems

Artificial intelligence (AI), particularly deep learning and foundation models, is transforming the way we understand and predict Earth systems, from weather and climate to environmental processes. This special session focuses on cutting-edge AI methodologies tailored for scientific applications, with an emphasis on modeling complex spatiotemporal dynamics, harnessing large-scale pre-trained models, and integrating multi-modal observational data. We also explore critical enabling technologies such as ultra-efficient compression for massive scientific datasets and human-centered evaluation frameworks to ensure that AI-driven insights are both reliable and actionable. By bridging AI with domain sciences, this session aims to accelerate discovery and improve decision-making in the face of increasingly complex environmental challenges.

Related Topics

1. AI Applications in Meteorology and Environmental Science
2. Complex Systems and Time-Series Modeling
3. Foundation Models (Large-Scale AI Models)
4. Multimodal Perception and Understanding
5. User Experience and Evaluation
6. Efficient Compression, Storage, and Transmission of Massive Datasets
7. Hybrid approaches: integrating AI with physical models

Organizers

Assoc. Prof. Chen Hui

Nanjing University of Information Science and Technology, China

Important Dates

Paper Submission Deadline:
March 10, 2026

Notification of Acceptance:
April 5, 2026

Submission Instruction

Please submit your manuscript to submission system and choose special session 2
Online Submission System: http://www.zmeeting.org/submission/hp3c2026
- Template Paper: Word: http://hp3c.net/acm_template.docx
- Template Paper: LaTex: http://hp3c.net/LaTeX-Templates.zip
- Submission Instruction: http://hp3c.net/sub.html

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