



Call For Papers

In today's rapidly evolving landscape of geospatial data and technology, both academia and industry are driven to harness the potential of big data and AI. They seek to create innovative products, enhance operational efficiencies, and provide novel solutions to existing challenges. Despite the widespread interest, there remains a critical communication gap between researchers in academia and industry, limiting advancements at the intersection of these domains. Academic institutions often face obstacles in accessing rich and invaluable big geospatial datasets, sufficient computational resources, as well as real-world industrial problems. Furthermore, solutions proposed by academic researchers often remain confined to small-scale experiments, built upon numerous assumptions, and lack scalability for industrial applications. On the other hand, industry possesses vast quantities of data, computational resources, and large-scale problems. However, due to the disparity in existing research, industry researchers may resort to traditional approaches that neglect spatial and temporal dependencies. Moreover, project teams often face time and product focus constraints, which hinder the exploration of high-risk-high-potential techniques.

In light of these challenges, we are pleased to announce the 4th ACM SIGSPATIAL International Workshop on Spatial Big Data and AI for Industrial Applications (GeoIndustry 2025). This workshop aims to bridge the gap between academia and industry, fostering collaboration and knowledge exchange to expedite the translation of research into practical impact. Additionally, the workshop seeks to nurture the development of future geospatial researchers, cultivating a skilled workforce for the field. GeoIndustry 2025 will provide a platform for invited talks and panel discussions, facilitating the exchange of thoughts and ideas between industry practitioners and academic experts. By bringing together these diverse perspectives, we aim to drive innovation, accelerate the research-to-impact cycle, and unlock the full potential of big data and AI technologies in industrial applications.

We invite researchers and practitioners to contribute to this exciting event by submitting papers in [the ACM format](#). Papers should be 8-10 pages (regular) or 4 pages (short) in length, presenting original research, practical solutions, or insightful perspectives. The workshop welcomes a range of topics in the context of geospatial research and applications, including but not limited to:

- Applications of AI
- Big Data systems
- Geospatial AI foundation models
- Problems and benchmark datasets
- Machine learning and deep learning
- Computer vision and earth observation
- Generative models and simulations
- Map generation techniques
- Heterogeneous data integration and analysis
- Small data learning approaches
- Citizen science and data collection
- Spatial query processing
- Spatial data management and integration
- Ethical issues in geospatial data and research
- Perspectives on the future of geospatial data and research
- Emerging topics and trends

Workshop Chairs

Heba Aly (Amazon)

Emre Eftelioglu (Amazon)

Song Gao (University of Wisconsin–Madison)

Yan Li (Amazon)

Jinmeng Rao (Google DeepMind)

Yiqun Xie (University of Maryland)

Important dates***Submission deadline***

August 30, 2025

Notification deadline

September 21, 2025

Workshop date

November 3, 2025

Workshop website: <https://geoindustry.github.io/geoindustryworkshop2025>

Submission site: <https://easychair.org/conferences/?conf=geoindustry2025>