

GeoIndustry 2023

Call For Papers

ACM SIGSPATIAL 2023

2nd ACM SIGSPATIAL International Workshop on Spatial Big Data and AI for Industrial Applications

November 13, 2022 Hamburg, Germany

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, 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 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 encounter time and resource constraints, hindering the exploration of high-risk-high-potential techniques.

In light of these challenges, we are pleased to announce the 2nd ACM SIGSPATIAL International Workshop on Spatial Big Data and AI for Industrial Applications (GeoIndustry 2023). 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 2023 will provide a platform for invited and regular talks, 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 in length, presenting original research, practical solutions, or insightful perspectives. The workshop welcomes a range of topics related to industrial applications and their spatial context, including but not limited to:

- Applications of AI
- Big Data systems
- 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
- Perspectives on the future of geospatial research
- Emerging topics and trends

Workshop website: https://liyanplus.github.io/geoindustry_2023.github.io/

Submission site: <https://easychair.org/my/conference?conf=geoindustry23>

Workshop chairs

Heba Aly (Amazon)
Emre Eftelioglu (Amazon)
Song Gao (University of Wisconsin–Madison)
Yan Li (Amazon)
Jinmeng Rao (Mineral Earth Sciences)
Yiqun Xie (University of Maryland)

Important dates

Submission deadline

August 20, 2023

Notification deadline

September 25, 2023

Workshop date

November 13, 2023