GeoIndustry 2022

ACM SIGSPATIAL 2022
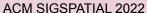
Call For Papers

1st ACM SIGSPATIAL International Workshop on Spatial Big Data and AI for Industrial Applications

November 01, 2022   Seattle, WA, United States

With the rapid revolution and increasing availability of geospatial data, not only academia but also industry aspire for solutions to further leverage the big data and AI technologies to create new products, improve efficiencies and provide novel solutions to existing problems. However, despite the widespread interest, there is a lack of communication between the researchers in academia and industry, limiting advancements at the intersection. Academia often has limited access to the rich and potentially useful big geospatial datasets and related real problems. In addition, the solutions proposed by the academic researchers alone are usually developed for small scale with many assumptions, leaving a less-attended gap between methods and their applicability at scale for industrial applications. On the other hand, industry has the data and problems at scale. However, since existing research is often not on par, industry researchers may lean towards using the traditional approaches that are developed without spatial consideration (e.g., ignoring spatial/temporal dependencies), and project teams have limited time and efforts to dive deep on the development high-risk-high-potential techniques. This opens opportunities for synergistic collaboration between industrial practitioners and academic researchers.

The 1st ACM SIGSPATIAL International Workshop on Spatial Big Data and AI for Industrial Applications (GeoIndustry 2022) is to offer a forum to exchange thoughts and ideas between industry and academia and reduce siloed efforts. The collaborations, via invited and regular talks, can not only accelerate the research-to-impact cycle, but also foster workforce development for future geospatial researchers. Interested participants should submit a paper in the ACM format. The length will be 8-10 pages. The topics include but are not limited to (in the context of industrial or related problems, such as delivery, routing, recommendation, mapping, resource allocation, and more):

- Applications of AI
- Applications of big data systems
- Problems and benchmark datasets
- Machine learning and deep learning
- Computer vision and Earth observation
- Generative models and simulation
- Map generation

- Heterogeneous data
- Small data learning
- Citizen science and data collection
- Spatial query processing
- Spatial data management and integration
- Perspectives
- Emerging topics and trends

Workshop website: https://liyanplus.github.io/geoindustry_2022.github.io/
Submission site: https://easychair.org/my/conference?conf=geoindustry22

Workshop chairs

Emre Eftelioglu (Amazon)

Heba Aly (Amazon)

Yiqun Xie (University of Maryland)

Jia Yu (Washington State University,

Apache Software Foundation)

Important dates

Submission deadline

September 12, 2022

Notification deadline

September 28, 2022

Workshop date

November 1, 2022