

🌐 United States 📅 November 3-6, 2025

CONFERENCE WEBSITE: <https://sigspatial2025.sigspatial.org/>

| About the Conference

===== ACM SIGSPATIAL 2025 Research
Track: Call for Papers =====

URL: <https://sigspatial2025.sigspatial.org/cfp/>

33rd ACM SIGSPATIAL International Conference on
Advances in Geographic Information Systems
November 3 - 6, 2025, Minneapolis, MN, USA

* Important Dates:

Abstract Submission: Friday, May 23rd, 2025,
11:59 PM Pacific Time

Paper Submission: Friday, May 30th, 2025, 11:59
PM Pacific Time

Notification of Accept/Reject: Thursday, July 31st,
2025, 11:59 PM Pacific Time

Camera-ready: Thursday, August 21st, 2025, 11:59
PM Pacific Time

* Overview

The ACM SIGSPATIAL International Conference on
Advances in Geographic Information Systems 2025
(ACM SIGSPATIAL 2025), the thirty-third edition,
will be held in Minneapolis, MN, in November 2025.
The conference began as a series of symposia and

📅 Important Dates

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**November
3-6, 2025**

workshops starting in 1993 with the aim of bringing together researchers, developers, users, and practitioners in relation to novel systems based on geospatial data and knowledge, and fostering interdisciplinary discussions and research in all aspects of geospatial information systems. The conference provides a forum for original research contributions covering all conceptual, design, and implementation aspects of geospatial data ranging from applications, to data storage and query processing, to internet of spatial things and spatial AI. The conference is the premier annual event of the ACM Special Interest Group on Spatial Information (ACM SIGSPATIAL). Researchers, students, and practitioners are invited to submit original, unpublished research papers not being considered for publication in any other forum.

* Research track contributions: three types of papers

There are three types of papers in the research track:

- Regular Research Papers
- Experiment, Benchmark & Experience Papers
- Vision Papers

1. Regular Research Papers

- Papers about theory, models, and algorithms.

These papers present original research on foundational concepts, such as novel models and algorithms for spatial computing. These papers are invited, where appropriate, to include a prototype implementation and evaluation that may include comparisons with alternate approaches. Example:

a novel algorithm for complex query processing or a novel model of spatial causal inference.

- Papers about systems. These papers describe the design, implementation, and empirical evaluation of a novel system, framework, or processing pipeline created to address a specific problem. It typically provides a detailed explanation of a real-world problem, the architecture, functionality, and performance of the system, and an evaluation that may include comparisons with alternate systems. Example: a platform for spatio-temporal data analysis in real-time.

2. Experiment, benchmark, and experience papers

- Papers about experiments. These papers evaluate multiple existing solutions to a problem and, through extensive experimentation, offer novel insights through a comprehensive analysis of their strengths and weaknesses. Example: evaluating anomaly detection algorithms using various datasets.

- Papers about benchmarks. These papers introduce new benchmarks for evaluating and comparing different techniques, systems, or algorithms. They provide a standardized reference point to guide experimental research and foster consistent evaluation practices. Example: benchmarking spatiotemporal causal analysis algorithms.

- Papers about experiences. These papers provide insights, lessons learned, and real-world experiences from deploying existing systems. They focus on practical challenges and observations from real-world usage, which are crucial for understanding the limitations of existing solutions. All the co-authors of an experience

paper can be from academia. Example: lessons learned from the deployment of a system for indoor tracking.

3. Vision papers

- These papers present visionary propositions that anticipate future directions and highlight compelling research opportunities for the SIGSPATIAL community. Submissions will be evaluated based on their potential to expand the current research agenda by defining new topics and problems with transformative impact. Proposals offering incremental improvements to well-studied problems (or slight variations of known solutions) are not relevant and should not be submitted. Instead, submissions that describe novel, early-stage projects with significant impact potential are welcome.

* Topics of interest

Suggested topics of interest include, but are not limited to, the following:

Spatial AI

- Generative AI for spatial reasoning and simulation
- Spatial foundation models
- Causal reasoning in space and time
- Spatial machine learning and explainability
- Privacy and ethics
- Spatial reasoning in robotics

Big spatial data

- Spatial and spatio-temporal analysis
- Query processing and optimization

- Spatial data mining, pattern analysis and knowledge discovery
- Spatio-temporal data management
- Spatial decision support
- Spatial data quality and uncertainty
- Geo-entity linkage, geo-enrichment
- Distributed and parallel algorithms
- Geospatial architectures and middleware
- GPU and novel hardware solutions

Pervasive computing and internet of spatial things

- Localization and tracking indoors/outdoors
- Contact tracing
- Location-based services
- Spatio-temporal sensor networks
- Traffic telematics
- Mobile systems and vehicular ad hoc networks

Spatial data acquisition, integration, processing

- Standardization and interoperability
- Earth observation and satellite data processing
- Computational geometry and computer graphics
- Image and video understanding
- Spatial, geo-social and trajectory Simulation
- Spatio-temporal stream processing

Spatial search

- Geographic information retrieval
- Human computer interaction and visualization
- Similarity searching
- Spatial data structures and algorithms
- Spatial modeling and reasoning
- Spatio-textual searching

Spatial intelligence at work

- Intelligent transportation and sustainable

mobility

- Autonomous vehicles
- Spatial knowledge graphs
- Epidemiology and health
- Cyber and physical security
- Smart cities and spaces
- Geospatial computer vision applications
- Location business intelligence
- Personalized geospatial recommendation systems

* Submission

General information

- Regular Research Papers: up to 10 pages excluding references
- Experiment, Benchmark & Experience Papers: up to 10 pages excluding references
- Vision Papers up to 4 pages excluding reference

As for Regular Research Papers and Experiment, Benchmark & Experience papers: papers are limited to 10 pages (excluding references), with up to 2 additional pages after the references to be used for appendices. Submissions of Vision Papers should follow the same formatting but are limited to 4 pages with no appendix (excluding references). Accepted vision papers will appear in the conference proceedings. Submissions that do not follow the page limit requirements will be desk-rejected without technical reviews.

SIGSPATIAL 2025 is a single-blind conference, therefore the names and affiliations of the authors should be listed in the submitted version. The author list is considered to be final after the

submission deadline and no changes, including the author order, to the author list are allowed for accepted papers.

* PC-Chairs Contact Information

- Yao-Yi Chiang, University of Minnesota, USA.
- Maria Luisa Damiani, University of Milan, Italy.
- Moustafa Youssef, The American University in Cairo, Egypt.

===== ACM SIGSPATIAL 2025 - CALL FOR TUTORIALS =====

URL: <https://sigspatial2025.sigspatial.org/tutorials-submission/>

33rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems
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ACM SIGSPATIAL 2025 invites submission of proposals for tutorials on topics related to the conference's areas of interest, namely all conceptual, design, and implementation aspects of geospatial data (please refer to the conference's Call for Papers for a list of topics).

Tutorials, which will be delivered on the conference's first day (November 03), can be of foundational, applied as well as interdisciplinary

nature and are expected to be focused on a given theme, contextualizing and covering the state-of-the-art related to such a theme and highlighting challenges and opportunities for future research. Proposals should not focus primarily on any particular researcher's line of work and should also keep in mind that SIGSPATIAL's audience is quite diverse in terms of background and interests. Authors of accepted proposals will be required to write a 2-4 pages summary of their tutorial (i.e., an expanded version of the proposal) for inclusion in the conference proceedings, and also make tutorial material (such as slides) publicly available, e.g., under an appropriate Creative Commons or similar license model, during and after the conference. Finally, in addition to accepting submissions, the conference reserves the right to also invite tutorials directly.

* Submission Guidelines:

Proposals must (1) be no longer than 2 pages, excluding references, formatted using ACM's Conference format (e.g., using Overleaf's template <https://www.overleaf.com/gallery/tagged/acm-official#.WOUOk2e1taQ>), (2) be submitted as a PDF file via this Google Form <https://forms.gle/a49YFeG84a5R5nEV7> and (3) contain the following information:

- Title of the tutorial
- Author(s)/Presenter(s):

) Ideally, at least one of the authors should be a relatively senior researcher in a community related to one of SIGSPATIAL's main themes. Participation at previous SIGSPATIAL events, however, is not required.

- Overview:

) Brief introduction to the tutorial's main content, including its relevance to the conference, and expected outcome, e.g., what attendees will have learned at the end.

- Structure:

) Main topics to be covered in the tutorial (including references) and how much time will be dedicated to each topic.

- Length:

) Considering the structure above, explain whether the tutorial is intended to be delivered over one or two 90-min sessions.

- Audience:

) Describe the ideal and minimum expected background of the intended audience.

- Author/Presenter information:

) Include short biographical sketches for all authors, indicating who will be the presenter(s).

- Further information (optional):

) Feel free to add any information you consider relevant to the proposal, e.g., A/V requirements, existing support material, whether the tutorial has been presented elsewhere, etc.

* Important Dates:

- Proposals submission: July 03.

- Acceptance/rejection notification: July 25.

- Camera-ready (extended tutorial summary):
August 21.

* Tutorial Co-Chairs:

- Kyriakos Mouratidis, Singapore Management University

- Mario A. Nascimento, Northeastern University (Vancouver Campus)

☰ TOPICS OF INTEREST

3 topics

Research papers are invited in, but not limited to, the following areas:

☑ Uncategorized

○ Digital Libraries &
○ Information
Systems

○ Artificial
○ Intelligence &
Machine Learning

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