



27th ACM SIGSPATIAL International Conference on
Advances in Geographic Information Systems (ACM SIGSPATIAL 2019)
Tuesday November 5 – Friday November 8, 2019
Chicago, Illinois, USA
Holiday Inn at the Mart Plaza



The *ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems 2019 (ACM SIGSPATIAL 2019)*, the twenty seventh edition, will be held in **Chicago, November 5-8, 2019**. It began as a series of symposia and workshops starting in 1993 with, the aim of bringing together researchers, developers, users, and practitioners in relation to novel systems based on geo-spatial data and knowledge, and fostering interdisciplinary discussions and research in all aspects of geographic information systems. The conference provides a forum for original research contributions covering all conceptual, design, and implementation aspects of geospatial data ranging from applications, user interfaces, and visualization to data storage and query processing and indexing. 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 their contributions. As in 2018, the conference is going to have firm submission deadlines; there will be no deadline extensions. Submission of a meaningful abstract by the abstract deadline is a precondition for paper submission. Suggested topics of interest include, but are not limited to, the following:

- Big Spatial Data
- Cartography and Geodesy
- Computational Geometry
- Computer Graphics Applications
- Computer Vision Applications
- Deep Learning
- Distributed and Parallel Algorithms
- Earth Observation
- Geographic Information Retrieval
- Geospatial Architectures and Middleware
- Geospatial Simulation
- GPU and Novel Hardware Solutions
- Human Computer Interaction and Visualization
- Image and Video Understanding
- Location-Based Services
- Location Privacy, Data Sharing and Security
- Mobile Systems and Vehicular Ad Hoc Networks
- Object Tracking and RFIDs
- Performance Evaluation
- Photogrammetry
- Similarity Searching
- Spatial Analysis and Integration
- Spatial and Spatio-Temporal Data Acquisition
- Spatio-Temporal Data Analysis
- Spatial Data Mining and Knowledge Discovery
- Spatial Data Quality and Uncertainty
- Spatial Data Structures and Algorithms
- Spatial Data Warehousing, OLAP, and Decision Support
- Spatial Information and Society
- Spatial Modeling and Reasoning
- Spatial Query Processing and Optimization
- Spatio-Temporal Data Management
- Spatio-Temporal Sensor Networks
- Spatio-Temporal Stream Processing
- Spatio-Textual Searching
- Standardization and Interoperability
- Storage and Indexing
- Traffic Telematics
- Transportation
- Urban and Environmental Planning
- Visual Languages and Querying
- Web and Real-Time Applications

Paper Format: Manuscripts should be submitted in PDF format and formatted using the ACM camera-ready templates available at <http://www.acm.org/publications/proceedings-template>.

Research, Systems, and Industrial Experience Papers: Authors are invited to submit original, unpublished research papers that are not being considered for publication in any other forum. In addition to regular research papers, authors are invited to submit systems papers, which focus on novel system architectures and software applications, and industrial experience papers, which describe original industrial experiences, challenges, and practical applications. For these papers, authors should append “(Systems Paper)” or “(Industrial Paper)” to the title, respectively. Submissions are limited to 10 pages. The Program Committee may accept submissions either as 10-page full papers for oral presentations or as 4-page poster papers for poster presentation. Both full and poster papers will appear in the conference proceedings. Note that a direct submission of 4-page poster papers is not solicited; if 4-page research papers are submitted, they will be reviewed according to the standards of a full paper.

Demonstration Papers: Authors are invited to submit demo papers describing original systems for demonstration presentation at the conference. Submissions are limited to 4 pages and “(Demo Paper)” should be appended to the title. Accepted demo papers will appear in the proceedings.

Vision Papers: Authors are invited to submit vision papers describing visionary ideas to be presented at the conference. Submissions are limited to 4 pages and “(Vision Paper)” should be appended to the title. Accepted vision papers will appear in the conference proceedings. Awards are expected to be provided to the first, second, and third best vision papers.

Registration and Presentation: At least one author per accepted research, systems, industrial experience, demonstration, or vision paper must register and attend the conference to present the accepted submission. Otherwise, the accepted submission will not appear in the conference proceedings or in the ACM Digital Library version of the conference proceedings.

Workshop Proposals: One-day workshops will be held on Tuesday, November 5, 2019. Workshop proposals are to be submitted in PDF format to the Workshops Chairs (call for proposals to be posted). The proceedings of the workshops will appear in the ACM Digital Library. All proposers and organizers of accepted workshops must register for the workshop or the workshop will be canceled.

Programming Contest: The ACM SIGSPATIAL CUP 2019, with prizes, is a geospatial-focused algorithm competition

Conference Officers

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