16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2008)

November 5-7, 2008, Irvine, CA, USA

http://acmgis08.cs.umn.edu/

SIGSPATIAL

The *ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems* 2008 (*ACM GIS 2008*) is the sixteenth event of a series of symposia and workshops that began in 1993 with the aim of bringing together researchers, developers, users, and practitioners carrying out research and development in 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 GIS ranging from applications, user interface considerations, and visualization down to storage management and indexing issues. This year's conference builds on last year's conference great success and on being the premier annual conference of the newly formed ACM Special Interest Group on Spatial Information (ACM SIGSPATIAL). Researchers, students, and practitioners are invited to submit their contributions to this year's ACM GIS. Suggested topics include but are not limited to:

- Cartography and Geodesy
- Computational Geometry
- Computer Vision Applications in GIS
- Distributed, Parallel, and GPU algorithms for GIS
- Earth Observation
- Geographic Information Retrieval
- Human Computer Interaction and Visualization
- Image and Video Understanding
- Location-based Services
- Location Privacy, Data Sharing and Security
- Performance Evaluation
- Photogrammetry
- Similarity Searching
- Spatial Analysis and Integration
- Spatial and Spatio-temporal Information Acquisition
- 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 Handling
- Spatio-temporal Sensor Networks
- Spatio-temporal Stream Processing
- Spatio-textual Searching
- Standardization and Interoperability for GIS
- Storage and Indexing
- Systems, Architectures and Middleware for GIS
- Traffic Telematics
- Transportation
- Urban and Environmental Planning
- Visual Languages and Querying
- Wireless, Web, and Real-time Applications

Paper Format and Submission

Authors are invited to submit full, original, unpublished research papers that are not being considered for publication in any other forum. Manuscripts should be submitted in PDF format and formatted using the ACM camera-ready templates available at http://www.acm.org/sigs/pubs/proceed/template.html. Papers cannot exceed 10 pages in length. In addition to the regular full-length papers, the Program Committee may accept some as poster papers which may be requested to be shortened. All submitted papers will be refereed for quality, originality, and relevance by the Program Committee. Submissions will be made electronically and online only at: http://acmgis08.cs.umn.edu.

Ph.D. Dissertation Showcase: Ph.D. students are encouraged to submit their Ph.D. research contributions and work-in-progress. Submissions cannot exceed 6 pages -- Add (Ph.D. Showcase) to the title. Student authors of the accepted papers will be given an opportunity to present a summary of their research at the conference. Successful Ph.D. showcase papers will appear in the ACM SIGSPATIAL Newsletter.

Demonstrations: Authors are invited to submit Demo papers that describe their original demonstrations to be presented during the conference. Demo paper submissions cannot exceed 2 pages -- Add (Demo Paper) to the title. They will appear in the Conference Proceedings.

Invited Speakers (Tentative)
Jack Dangermond, President, ESRI
Vinton Cerf, VP, Google and 2004 ACM Turing Award Winner

Important Dates (Research, Ph.D., and Demo Papers), all deadlines PST

Abstract Submission:	Full Submission:	Notification:	Camera-Ready:
Jun. 17, 2008, 9:00 PM	**Jun. 24, 2008, 9:00 PM**	**Aug. 11, 2008**	**Sept. 1, 2008**

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