Paper Submission

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals. All open submissions will be peer reviewed subject to the standards of the journal. Manuscripts based on previously published conference papers must be extended substantially.

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Important Dates

- Paper Submission: 15 January 2016
- Acceptance notification: 18 March 2016

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Call for Papers

Special Issue on GeoStreaming

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We are entering the era of “big data” thanks to the exponential growth and availability of structured and unstructured data, among which a large amount are real-time streaming data emitted from sensors, imagery and mobile devices. In addition to the temporal nature of stream data, various sources provide stream data that has geographical locations and/or spatial extents, such as geotagging twitter streams, mobile GPS location streams, spatial temporal image streams, and so on. On one hand, this amount of streamed data has been a major propeller to advance the state of the art in geographic information systems. On the other hand, the ability to process, mine, and analyze that massive amount of data in a timely manner prevented researchers from making full use of the incoming stream data. Geostreaming refers to the ongoing effort in academia and industry to process, mine and analyze stream data with geographic and spatial information.

With this special issue, we encourage researchers from academia and industry to submit papers that study and highlight the value of GeoStream data processing, analyzing, and mining, on topics that include, but not limited to the following:

- Spatio-temporal stream systems
- Spatio-temporal stream query processing
- Real-time mining of spatial and spatio-temporal data
- Location-aware stream systems
- Privacy preserving in mobile object databases
- Traffic monitoring and prediction
- Geosensing technologies and their application
- Geosampling and probabilistic spatial stream query processing
- Real-time geographical information extraction and retrieval
- Geosocial networks
- Main memory and/or real time indexing of moving objects
- Real-time spatial data visualization
- Spatio-temporal stream processing on cloud
- Participatory spatio-temporal data streams and Volunteered Geographic Information (VGI)
- Use of hardware acceleration in real-time stream processing
- The use of stream processing in traffic management, aerospace, earthquake physics, geodynamics, weather forecasting, asset management and scientific applications.

All papers will undergo the same rigorous GEIN review process. Please refer to the GEIN website for detailed instructions on paper submission. Please choose “Special Issue: GeoStreaming” as the Article Type.