

**AAG Newsletter**  
of the  
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## Space-Time Integration in Geography and GIScience

Every year, the Association of American Geographers (AAG) identifies a particularly timely or relevant set of themes to feature during its Annual Meetings. Last year an over-riding theme was climate change, for example, and previous years have included featured sessions on topics on as human rights, landscape and literature, sustainable development in Africa, geography of water, and many other topics.

Among several special themes at its upcoming Annual Meeting in Seattle, April 12-16, 2011, will be multiple sessions focused on the research status, recent advances and research needs of space-time integration, modeling and analysis in geography and GIScience. This special set of invited papers will feature many leading GIScience researchers from Asia and Europe as well as from other regions of the world, and will form a three-day high-profile symposium within the AAG Annual Meeting.

Space-time analysis is a rapidly growing research frontier in geography, GIS, and GIScience. Advances in integrated GPS/GIS technologies, the availability of large datasets (over time and space), and increased capacity to manage, integrate, model and visualize complex data in (near) real time, offer the GIS and geography communities extraordinary opportunities to begin to integrate sophisticated space-time analysis and models in the study of complex environmental and social systems, from climate change to infectious disease transmission.

This special symposium builds on momentum from a space-time analysis workshop cosponsored by the AAG, ESRI, the University of Redlands, and University of Southern California in early 2010, as well as several other initiatives during the past few years. Geographers, GIScientists, modelers, computer programmers, GPS/GIS systems scientists, climate change scientists, epidemiologists, ecologists, planners, transportation experts, and others with research expertise in integrating space-time in GIS

and geography are encouraged to participate in this special symposium.

This special symposium will open with a plenary panel session led by prominent theorists and pioneers in these fields.

The AAG welcomes paper abstracts in the following areas.

- *Research advances and needs in space-time analysis and representation, such as:*

- collaborations among GIScientists and modelers (systems, agent-based, network, etc.)
- real-time GPS/GIS interactive systems
- technological challenges and R&D needs
- visualization of space-time in GIS
- sharing discoveries and results with decision-makers
- integrating analysis and results into web 2.0
- dealing with lag effects in space and time
- ontological frameworks
- qualitative space-time analysis
- temporal scale and event representation
- historical time and HGIS
- computational algorithms
- analytical tools for time constrained decision support systems
- sensor integration
- 3-D or 4-D representations of time and space interactive data
- real-time geographic management systems
- uncertainty analysis
- community or participatory GPS/GIS and related systems (including "VGI")
- *State-of-the-Art applications of space-time modeling and analysis in areas such as:*
  - climate change response and adaptation
  - species migrations and habitat connectivity



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- marine environments (oil spill impacts, other persistent pollution, fisheries, ocean transport)
  - hydrology (flows and observations)
  - land use/land cover change
  - location-based services (LBS)/mobile GIS/navigation
  - homelessness and poverty research
  - health (epidemics, disease transmission)
  - disaster response, crisis mapping
  - crime analysis and mapping
  - dynamics of urban renewal/decay
  - dynamics of the global financial system
  - wars, revolutions, and military activities
  - flows of labor and trade in a global economy
  - transportation (information, materials, people)
  - refugee populations
- *Education and the GIS workforce using space-time analysis, such as:*
    - Needs of business, nonprofit, governmental, and academic organizations for expertise

- Opportunities and pathways to educate geographers and GIScientists (students to mature GIS professionals) in new research techniques, tools, and concepts

If you are interested in presenting a paper or poster in this Time-Space Research Symposium, please go to [www.aag.org](http://www.aag.org), to register for the conference and submit your abstract by **October 15, 2010**. Indicate "Temporal" as one of your keywords. Also email a copy of your abstract submission page to Megan Overbey at [moverbey@aag.org](mailto:moverbey@aag.org).

For more information on the symposium, see [www.aag.org/giscience-research](http://www.aag.org/giscience-research), or contact Jean McKendry at [jmckendry@aag.org](mailto:jmckendry@aag.org). Initial organizers of the symposium include Mike Goodchild, Doug Richardson, Mei-Po Kwan, Luc Anselin, Michael Gould, Elizabeth Wentz, and Jean McKendry.

In addition to this featured Space-Time Research Symposium, other special themes of the AAG Seattle meeting will include session tracks focused on Asian Geographies

and Research Collaborations; on Geography and Public Health; on Diversifying our Discipline; and on Geography Education and the Changing Role of Universities in today's globalizing societies. These and hundreds of other cutting edge research and educational sessions will be organized by the AAG, its members and its specialty groups in the months ahead for the AAG Seattle meeting. The AAG Annual Meeting, with 8,000 attendees from over 60 countries, is one of the most dynamic, substantive, and innovative geography research and scholarship events in the world. I hope you will join us in 2011 in Seattle, one of my favorite cities. ■

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