

Symposium on Space-Time Integration in Geography and GIScience

A special Symposium focused on the research status, recent advances and research needs of space-time integration, modeling and analysis in geography and GIScience has been organized 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.

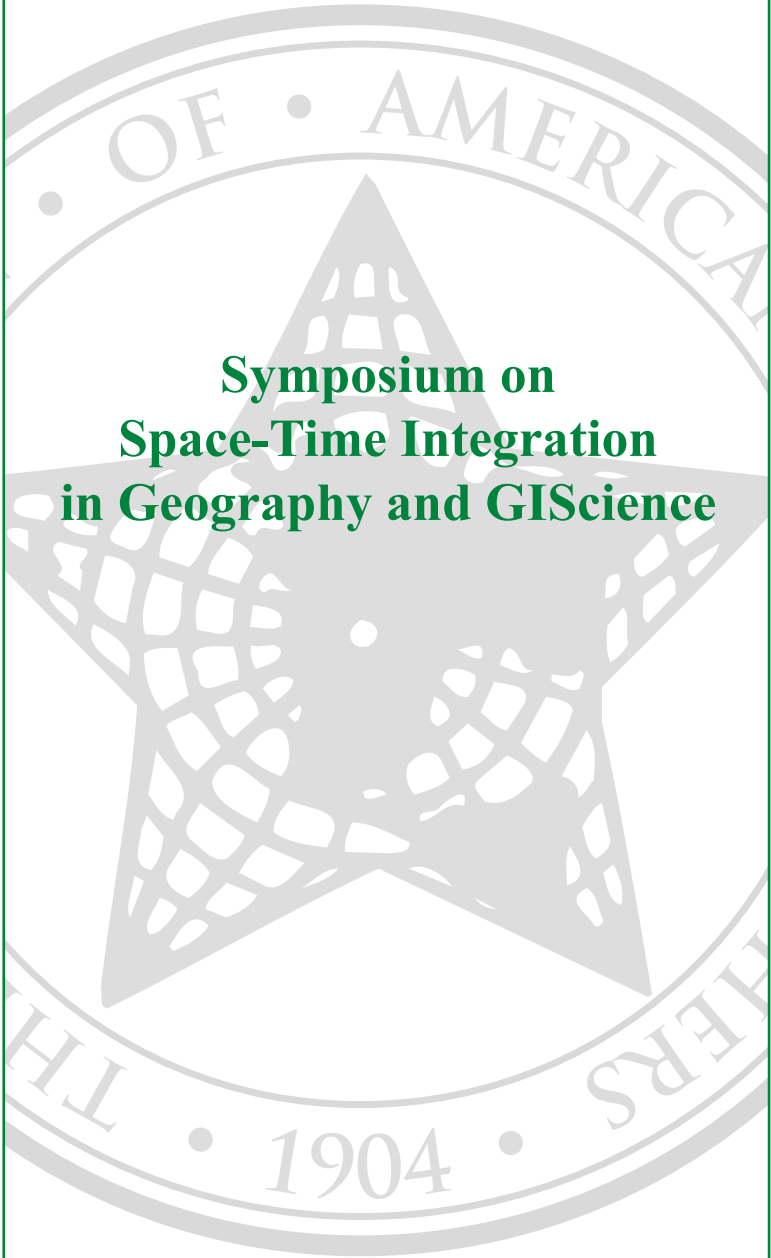
Nearly 60 sessions are running on four concurrent tracks from Wednesday-Friday of the conference. Geographers, GIScientists, modelers, computer programmers, GPS/GIS scientists, climate change scientists, epidemiologists, ecologists, planners, transportation experts, and others with active research expertise in integrating space-time in GIS and geography will participate.

Special thanks to the Harvard Center for Geographic Analysis for co-sponsoring with the AAG the *Historical GIS and Gazetteers* session track.

For more information about the Symposium and a list and schedule of all presentations, please visit: <http://www.aag.org/GiscienceResearch/Sessions>.

Symposium Organizers

Michael Goodchild – University of California, Santa Barbara
Douglas Richardson – Association of American Geographers
Mei-Po Kwan – Ohio State University
Peter Bol – Harvard University
Luc Anselin – Arizona State University
Kathleen Stewart – University of Iowa
Tomoki Nakaya – Ritsumeikan University, Japan
Dan Griffith – University of Texas at Dallas
Scott Bell – University of Saskatchewan
Martin Dijst – Utrecht University, the Netherlands
Jeremy Mennis – Temple University
Wendy Guan – Harvard University
Elizabeth Wentz – Arizona State University
Michael Gould – Environmental Systems Research Institute
Donggen Wang – Hong Kong Baptist University, China
Harvey Miller – University of Utah
Jean McKendry – Association of American Geographers
May Yuan – University of Oklahoma
Seraphim Alvanides – Northumbria University, UK
Sara Fabrikant – University of Zurich



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2011 AAG ANNUAL MEETING
Seattle, Washington • April 12-16, 2011

AAG Symposium on Space-Time Integration in Geography and GIScience: Tracks and Concurrent Sessions

Wednesday, April 13

8:00 am to 9:40 am	<p>2179 Space-Time Integration in Geography and GIScience: Opening Plenary (Ballroom A), p. 117</p>
10:00 am to 11:40 am	<p>2286 Integrating Space and Time in Social Research: Conceptual and Methodological Issues (Willow A), p. 131</p> <p>2277 Spatiotemporal Data Infrastructure (Cedar), p. 130</p> <p>2276 Time Geography: Recent Progress and Future Prospects (I) (Aspen), p. 130</p> <p>2287 Major Placename Research Projects (Willow B), p. 131</p>
11:50 am to 12:30 pm	
12:40 pm to 2:20 pm	<p>2486 Integrating Space and Time Through Information and Geospatial Technologies (Willow A), p. 145</p> <p>2477 The Role of Advanced Computational Tools in Visualizing Spatiotemporal Complexity (Cedar), p. 144</p> <p>2476 Time Geography: Recent Progress and Future Prospects (II) (Aspen), p. 144</p> <p>2487 Ontologies of Place; Names and Language (Willow B), p. 145</p>
2:40 pm to 4:20 pm	<p>2586 Waldo Tobler Distinguished Lecture in Geographic Information Science (Willow A), p. 157</p> <p>2577 Tools for Spatiotemporal Analysis, (Cedar), p.157</p> <p>2576 Time Geography: Recent Progress and Future Prospects (III) (Aspen), p. 156</p> <p>2587. Gazetteer Elements; Temporal Frameworks (Willow B). p. 157</p>
4:40 pm to 6:20 pm	<p>2686 Panel in honor of Dr. Duane Marble (Willow A), p. 169</p> <p>2677 Analysis & Modeling of Moving Objects (Cedar), p. 169</p> <p>2676 Applications of Spatio-temporal Analysis in GIScience (Aspen), p. 169</p>
	Reception for Symposium Participants, 6:30-8:00p, Cirrus Ballroom

Thursday, April 14

8:00 am to 9:40 am	<p>3186 Critical space-time geographies I (Willow A), p. 184</p> <p>3178 Space-Time Language (Douglas), p. 183</p> <p>3177 Spatiotemporal Properties of Transportation Systems (Cedar), p. 183</p> <p>3176 Space-Time Patterns of Sediment Transport From High Resolution Data Analysis (Aspen), p. 183</p> <p>3187 Topics in Gazetteer Construction (Willow B), p. 184</p>
10:00 am to 11:40 am	<p>3286 Critical space-time geographies II (Willow A), p. 197</p> <p>3278 Challenges in Spatiotemporal Research (Douglas), p. 196</p> <p>3277 Human Mobility Tracking and Activity Spaces (Cedar), p. 196</p> <p>3276 Advances in Spatial and Temporal Analysis: Examples from Different Landscapes (Aspen), p. 196</p> <p>3287 Using Historical and Cultural Gazetteers (Willow B), p. 197</p>
11:50 am to 12:30 pm	
12:40 pm to 2:20 pm	<p>3486 Modeling Population Dynamics (Willow A), p. 209</p> <p>3478 CyberGIS Research Agenda (Douglas), p. 208</p> <p>3477 The Space-time approach to studying individuals' lifestyle and quality of life (Cedar), p. 208</p> <p>3476 Land Use / Land Cover Change I (Aspen), p. 208</p> <p>3487 Interoperable gazetteers and the spatially-enabled web - What will the future of gazetteers be in the sphere of networked information? (Willow B)</p>
2:40 pm to 4:20 pm	<p>3586 Geovisual Analytics (Willow A), p. 222</p> <p>3578 Agency Perspectives on CyberGIS (Douglas), p. 221</p> <p>3577. Collecting and interpreting spatio-temporal data (Cedar), p. 220</p> <p>3576. Land Use / Land Cover Change II (Aspen), p. 220</p> <p>3587. Building World Historical Gazetteers from Historical GIS (1) (Willow B), p. 222</p>
4:40 pm to 6:20 pm	<p>3686 Spatiotemporal Visualization Methods (Willow A), p. 234</p> <p>3678 CyberGIS Trends (Douglas), p. 233</p> <p>3677 Studying transportation, housing and social issues from spatio-temporal data, (Cedar), p. 233</p> <p>3676 Species Movement and Migration Modeling (Aspen), p. 233</p> <p>3687 Data Models and Content Standards (Willow B), p. 234</p>

Friday, April 15

8:00 am to 9:40 am	<p>4186 Spatial Analysis and Volunteered Geographic Information (VGI) (Willow A), p. 250</p> <p>4178 Spatio-temporal Analysis of Crimes and Emergencies (Douglas), p. 248</p> <p>4177 Dynamics of Spatiotemporal Land Use Change (Cedar), p. 248</p> <p>4187 Building World Historical Gazetteers from Historical GIS (2) (Willow B), p. 250</p>
10:00 am to 11:40 am	<p>4286 Visualizing and Modeling Agents in Space & Time (Willow A), p. 263</p> <p>4221 GIS Poster Session (6ABC Convention Center, Level 6), p. 253*</p> <p>4276 Cognition, Behavior, and Representation I (Aspen), p. 261</p> <p>4278 Spatiotemporal Analysis: Applications Across Multiple Disciplines (Douglas), p. 262</p> <p>4277 Spatiotemporal Analysis of Environmental Phenomena (Cedar), p. 262</p> <p>4287 Building a Temporally Enabled Global Gazetteer (Willow B), p. 263</p>
11:45 am to 12:40 pm	<p>4387 Space-Time Integration in Geography and GIScience Discussion: Trends and Directions (Willow B), p. 263</p>
12:40pm to 2:20 pm	<p>4486 Perspectives on Complex Spatio-Temporal Systems [1]:Agent-Based Modeling (Willow A), p. 276</p> <p>4476 Cognition, Behavior, and Representation II: Time-Space Visualization (Aspen), p. 274</p> <p>4478 Space, Time, & Health I (Douglas), p. 275</p> <p>4477 Contributions of Spatiotemporal Analysis to Climate Research (Cedar), p. 275</p> <p>4487 Working Lunch (Willow B), p. 276</p>
2:40 pm to 4:20 pm	<p>4586 Perspectives on Complex Spatio-Temporal Systems [2]:Geosimulation (Willow A), p. 287</p> <p>4576 Cognition, Behavior, and Representation III: Spatial Thinking and Spatial Cognition (Aspen), p. 286</p> <p>4578 Space, Time, & Health II (Douglas), p. 286</p> <p>4577 Spatiotemporal Dynamics of Recovery, Restoration, & Resilience (Cedar), p. 286</p> <p>4587 "There is no place like home!" - Why Historians would want to use a GIS (Willow B), p. 287</p>
4:40 pm to 6:20 pm	<p>4686 Design Principles for Agent-based Models of Land use/land cover change (Willow A), p. 297</p> <p>4676 Cognition, Behavior, and Representation IV: Panel on Methodology and Training in Spatial Cognition (Aspen), p. 296</p> <p>4678 Using Technology to Integrate Time and Space for Historical Analysis (Douglas), p. 296</p> <p>4687 Space-time historical data analysis and visualisation of Japan (Willow B), p. 297</p>

Session Track Titles: Diverse Perspectives on Advancing Theory, Modeling and Methods Developments in Key Topical Areas

A Focus on the Environment

Related Events

Historical GIS and Gazetteers (Special AAG and Harvard Center for Geographic Analysis Track)

*Miller, Magness, and Mavoja posters in 4221 included in Symposium.
Page numbers refer to additional information in the full Annual Meeting Program.