Spatial Analysis and Modeling Specialty Group Sessions  
Association of American Geographers  
New Orleans, Louisiana  
March 5-9, 2003

* 1 sponsored plenary and reception  
* 14 sponsored (co) sessions  
* 61 papers across 14 sponsored session and 1 plenary

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4243. Spatial Dimensions of Emerging Technologies for Understanding Dynamic Travel Behaviors  
(Sponsored by Transportation Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)  
Time: Wednesday, 3/5/2003 from 10:00 a.m. - 11:40 a.m.  
1. Talia M. McCray - Universite Laval (Presenter)  
   Abstract Title: Analyzing Travel Behavior of Disadvantaged Women in Quebec City: A Multi-Method Approach Involving Focus Groups, Map-Making, and Benchmarking from OD data  
2. Luksamee Jeawetchasil - Geography Dept. Ohio State University (Presenter)  
   Abstract Title: Gender and the Temporal Patterns of Leisure Activities  
3. Agatino La Rosa - Kennesaw State University (Presenter)  
   Abstract Title: Local Factors in Transportation Studies  
4. Irene Casas - SUNY at Buffalo (Presenter)  
   Abstract Title: A GIS- Internet Based Simulator for Data Collection

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4443. Geographical Perspectives on Complexity Theory and Complex Systems 1  
(Sponsored by GIS Specialty Group, Spatial Analysis and Modeling Specialty Group)  
Time: Wednesday, 3/5/2003 from 1:00 p.m. - 2:40 p.m.  
1. David O'Sullivan - Pennsylvania State University (Presenter)  
   Abstract Title: Complexity science and human geography  
2. Steven Manson - University of Minnesota (Presenter)  
   Abstract Title: Scale and complexity theory in the geography of global change  
3. Thomas Crawford - Gettysburg College (Presenter)  
   Abstract Title: Signatures of Complexity: Spatio-temporal Dynamics of Land Cover Patterns for Coupled Human-Natural Systems  
4. Dawn C. Parker - George Mason University (Presenter)  
   Abstract Title: A 'pseudo-inductive' analysis of complex system dynamics: linking spatial conflicts to landscape fragmentation  
5. Iqbal Adjali - BTexact Technologies (Presenter)  
   Abstract Title: The multifractal structure of the human population distribution

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4543. Geographical Perspectives on Complexity Theory and Complex Systems 2  
(Sponsored by GIS Specialty Group, Spatial Analysis and Modeling Specialty Group)  
Time: Wednesday, 3/5/2003 from 3:00 p.m. - 4:40 p.m.  
1. Yu Zeng - University of Iowa (Presenter)
Abstract Title: Evolution Computation of Nonlinear Feedback in Alpine Treeline

2. Joseph P. Messina - Michigan State University (Presenter)
   Abstract Title: A Complex Systems Approach to Fine-Scale Intra-farm Level Modeling in the Ecuadorian Amazon

3. Paul Torrens - University College London (Presenter)
   Abstract Title: Geographic Automata Systems

5132. Spatial Analysis and Modeling I
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Thursday, 3/6/2003 from 8:00 a.m. - 9:40 a.m.
1. Youngho Kim - Ohio State University (Presenter)
   Abstract Title: Analytical Crime Mapping in Urban Environments
2. Ikuho Yamada - SUNY Buffalo (Presenter)
   Abstract Title: A GIS Application for the Quick Detection of Changes in Spatial Patterns of Disease Using Cumulative Sum Methods
3. Dave Lemberg - Western Michigan University (Presenter)
   Abstract Title: Flash Crowds: A Model for Explaining Student Riots in the United States
4. Daniel A. Griffith - Syracuse University (Presenter)
   Abstract Title: Prioritizing remediation within a hazardous waste site

5143. Geographical Perspectives on Complexity Theory and Complex Systems 3
(Sponsored by GIS Specialty Group, Spatial Analysis and Modeling Specialty Group)
Time: Thursday, 3/6/2003 from 8:00 a.m. - 9:40 a.m.
1. Wenwu Tang - University Of Iowa (Presenter)
   Abstract Title: Agent-Based Modeling of Village Location in Thailand
2. Peter J. Deadman - University of Waterloo (Presenter)
   Abstract Title: Agent-based simulation as a tool for the exploration of land-use change dynamics near Altamira, Brazil
3. Daniel G. Brown - University of Michigan (Presenter)
   Abstract Title: Modeling Spatial Patterns of Land Development Using a Multi-Agent System
4. Raja Sengupta - Southern Illinois University at Carbondale (Presenter)
   Abstract Title: Modeling Adoption of Compensatory Payments Using Intelligent Agents within an SDSS
5. Benjamin Schoepfle - Argonne National Laboratory (Presenter)
   Abstract Title: Modeling Electricity Market Behavior With Agent-Based Simulation

5232. Spatial Analysis and Modeling II
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Thursday, 3/6/2003 from 10:00 a.m. - 11:40 a.m.
1. Daikwon Han - State Univ of New York (Presenter)
   Abstract Title: Exploratory Spatial Analyses of Lifetime Breast Cancer Risk and Residence History
2. Michael Tiefelsdorf - Ohio State University (Presenter)
Abstract Title: Identification of an Underlying Spatial Process in Disease Mapping
3. Peter A. Rogerson - UNIVERSITY AT BUFFALO (Presenter)
   Abstract Title: Monitoring Health Data for the Quick Detection of Changes in Geographic Patterns
4. Fumiko Ito - University Of Tokyo (Presenter)
   Abstract Title: A web system for finding free software packages of spatial analysis
5. Michael Woldenberg - University at Buffalo (Presenter)
   Abstract Title: A Fibonacci Interpretation of Spatial Hierarchies

5432. Spatial Analysis and Modeling III
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Thursday, 3/6/2003 from 1:00 p.m. - 2:40 p.m.
   1. Eric M. Delmelle - State University Of New York at Buffalo (Presenter)
      Abstract Title: A Spatial Model of Received Signal Strength Indicator Values
   2. Stuart H. Sweeney - University of California, Santa Barbara (Presenter)
      Abstract Title: Small area population projections using stochastic simulation
   3. Jean-Claude Thill - University at Buffalo (Presenter)
      Abstract Title: Exploratory Analysis of English Dialect Features in the Middle and South Atlantic U.S. States by Self-Organizing Maps
   4. R Kelly Pace - (Presenter)
      Abstract Title: Spatial Simultaneous Equation Estimation via Maximum Likelihood
   5. Randall Jackson - West Virginia University (Presenter)
      Abstract Title: Alternate formulations for minimizing inter-matrix distances

5532. Spatial Analysis and Modeling IV
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Thursday, 3/6/2003 from 3:00 p.m. - 4:40 p.m.
   1. Timothy C. Matisziw - Ohio State University (Presenter)
      Abstract Title: Strategic Bus Route Extension
   2. Yongmei Lu - Southwest Texas State University (Presenter)
      Abstract Title: Modeling Travel Distances through Investigating Spatial Continuity
   3. Thomas J. Cooke - University of Connecticut (Presenter)
      Abstract Title: How Far do the Unemployed Commute? Methods for Addressing Sample Selection Bias in Geography
   4. Paul Boyle - University of St. Andrews (Presenter)
      Abstract Title: Is the spatial mismatch hypothesis relevant in Britain? Modelling ethnic group commuting patterns

5632. Spatial Analysis and Modeling - Plenary Lecture and Geographical Analysis Reception
Time: Thursday, 3/6/2003 from 5:00 p.m. - 6:40 p.m.
Participant(s):
   1. Alan T. Murray - Ohio State University (Introduction)
   2. Nina Lam - Louisiana State University (Presenter)
      Abstract Title: Challenges in Spatial Analysis: An Assessment
   3. Jean-Claude Thill - University at Buffalo (Discussant)
6127. Point Pattern Analysis in GIS Environments: New Approaches-1
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Friday, 3/7/2003 from 8:00 a.m. - 9:40 a.m.
1. Naresh Kumar - Brown University (Introduction)
2. Atsuyuki Okabe - University of Tokyo (Presenter)
   Abstract Title: Point pattern analysis on a network and its software package, SANET
3. Stafania Bertazzon - University of Calgary (Presenter)
   Abstract Title: Discriminating landscape effects to obtain nest spacing estimates for Marbled Murrelets in coastal old-growth forests.
4. Tohru Yoshikawa - Tokyo Metropolitan University (Presenter)
   Abstract Title: A Toolbox for analyzing the effect of infra-structural facilities on the distribution of activity points
5. Naresh Kumar - Brown University (Presenter)
   Abstract Title: Spatial Dependency and Causality Analysis of Point Events in GIS Environments

6227. Point Pattern Analysis in GIS Environments: New Approaches-2
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Friday, 3/7/2003 from 10:00 a.m. - 11:40 a.m.
1. Steven Reader - University Of South Florida (Presenter)
   Abstract Title: A Spatial Statistical Analysis of Racial Disparities in Low Birth Weight Incidence
2. Marina Gavrilova - University Of Calgary (Presenter)
   Abstract Title: $L_p$ nearest-neighbor distance computation in spatial pattern analysis for spatial epidemiology

6417. On Tobler's First Law of Geography
(Sponsored by GIS Specialty Group, Spatial Analysis and Modeling Specialty Group)
Time: Friday, 3/7/2003 from 1:00 p.m. - 2:40 p.m.
1. Harvey J. Miller - University of (Panelist)
2. Jonathan M. Smith - Texas A&M University (Panelist)
3. Trevor J. Barnes - University of British Columbia (Panelist)
4. Michael F. Goodchild - Univ of California (Discussant)

6606. Reexamining Individual Accessibility for the 21st Century City
(Sponsored by Transportation Geography Specialty Group, Spatial Analysis and Modeling Specialty Group)
Time: Friday, 3/7/2003 from 5:00 p.m. - 6:40 p.m.
1. Marim Kim - University at Buffalo (Presenter)
   Abstract Title: Revisiting the Link between Geographic Accessibility and Trip Generation
2. Hyun-Mi Kim - Ohio State University (Presenter)
   Abstract Title: Exploring gender differences in individual space-time accessibility using GIS
3. Selima Sultana - Auburn University (Presenter)
Abstract Title: The Effects of Spatial Urban Form on Metropolitan Commuting: A Reexamination of Metropolitan Atlanta
4. Greg A. Steele - West Chester University (Presenter)
   Abstract Title: Finding the Land Use - Transit Connection: A Case Study of Thorndale, Pennsylvania
5. Joe Weber - University of Alabama (Presenter)
   Abstract Title: Incorporating fear and security constraints into individual accessibility in a post-September 11 society

6520. Spatial Analysis and Modeling - Student Paper Competition
(Sponsored by Spatial Analysis and Modeling Specialty Group)
Time: Friday, 3/7/2003 from 3:00 p.m. - 4:40 p.m.
1. Changjoo Kim - OHIO STATE UNIVERSITY, GEOGRAP (Presenter)
   Abstract Title: Infrastructure Design and Cost Allocation in Hub Network
2. Zuoquan Zhao - George Mason University (Presenter)
   Abstract Title: Measuring shape similarity under similarity transformations
3. Nicholas N. Nagle - University of California, Santa Barbara (Presenter)
   Abstract Title: A point-based regression analysis of industrial location

7416. Techniques in GIS-based modeling of land cover
(Sponsored by Spatial Analysis and Modeling Specialty Group, GIS Specialty Group)
Time: Saturday, 3/8/2003 from 2:00 p.m. - 3:40 p.m.
1. Hao Chen - Clark University (Presenter)
   Abstract Title: An Integrated GIS-based Land-Use Change Simulation Model: A New Generation of GEOMOD2
2. Robert Pontius - Clark University (Presenter)
   Abstract Title: Validation of Land-Use Change Models at Multiple Resolutions
3. Alex Pulsipher - Clark University (Presenter)
   Abstract Title: Participatory Vulnerability Modeling: Potential for Multi-Agent GIS Approaches
4. Zhe Li - CLARK UNIVERSITY (Presenter)
   Abstract Title: Application of BP neural network in remotely sensed imagery -- An introduction to the new module in IDRISI Kilimanjaro