



The Association of American Geographers Spatial Analysis and Modeling Specialty Group Newsletter

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FROM THE CHAIR

Dear SAM Members,

Hope all of you have had a great summer. As you know, the 2014 AAG Annual Meeting will be held at Tampa, Florida, April 8-12, 2014. The SAM Specialty Group is working hard to make the SAM related activities as smooth as possible. Here I would like to announce some exciting news for the SAM community.



First, the SAM board has officially established the SAM Outstanding Service Award to recognize SAM members who have contributed to the specialty group through outstanding service. Following the approved procedure (<http://sam-aag.sdsu.edu/Outstanding%20service%20award.html>), two outstanding scholars have been chosen for the 2014 award: **Dr. Daniel Griffith** from University of Texas at Dallas and **Dr. Alan Murray** from Arizona State University. Congratulations Drs. Griffith and Murray! We will recognize the two awardees at the 2014 SAM business meeting, and present the plaques at the 2014 AAG Awards Luncheon on April 12, 2014. You are welcome to attend the meeting and congratulate the two awardees.

The SAM Plenary Lecture is a big event for the SAM community each year. The 2014 Plenary Speaker, after an open call and online discussion and voting, has been chosen: **Dr. Helen Couclelis**, Professor at Department of Geography, UC Santa Barbara, is our 2014 SAM Plenary Speaker. Congratulations Dr. Couclelis! We encourage that you make arrangements and attend the lecture—we will circulate details on the date, time, and location of the lecture once available.

The John Odland Award (SAM Student Paper Competition) is now calling papers of a theoretical or applied nature written by students from accredited universities or colleges. For more information about this call, please visit our SAM website at <http://sam-aag.sdsu.edu/students.html>. I would like to thank SAM board members, especially Joni Downs, for their dedication and hard work. Please attend the paper presentations and support our students!

Finally I would like to thank all of you for your support to the SAM group, and invite you to attend the SAM business meeting during the 2014 AAG annual meeting (date, time, and location to be notified). The tentative agenda of SAM business meeting will be posted through the SAM email list later. For sponsorship for your AAG paper sessions or any other questions,

please contact me at lan@mail.sdsu.edu. Look forward to seeing you all in Tampa, Florida!

Best regards,



Li An
Professor
Department of Geography
San Diego State University

NEWS

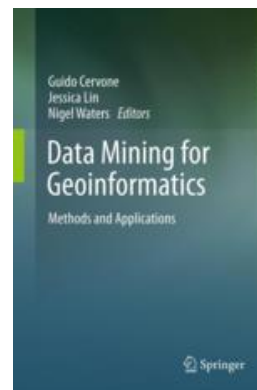
***Geographical Analysis* editorship**

The Executive Board of *Geographical Analysis* invites expressions of interest in the Editorship of the journal. The 2014 volume will be the sixth of current Editor Dan Griffith's term. The board thanks him for his diligent and successful leadership. The expected transition will occur on or about July 1, 2014, and the new editor's first named issue will be the 2015 volume. As well as having all the usual markers of excellence in academic judgment and endeavors, the prospective editor's home institution is expected to be supportive. The appointment is initially for a three year term, with the possibility of renewal.

Contact for information: Morton O'Kelly, Chair, GA Executive Committee. okelly.1@osu.edu

The target date for receipt of expressions of interest is November 15, 2013.

Data Mining for Geoinformatics released



The rate at which geospatial data is being generated exceeds our computational capabilities to extract patterns for the understanding of a dynamically changing world. Geoinformatics and data mining focuses

on the development and implementation of computational algorithms to solve these problems. This unique volume contains a collection of chapters on state-of-the-art data mining techniques applied to geoinformatic problems of high complexity and important societal value. Data Mining for Geoinformatics addresses current concerns and developments relating to spatio-temporal data mining issues in remotely-sensed data, problems in meteorological data such as tornado formation, estimation of radiation from the Fukushima nuclear power plant, simulations of traffic data using OpenStreetMap, real time traffic applications of data stream mining, visual analytics of traffic and weather data and the exploratory visualization of collective,

mobile objects such as the flocking behavior of wild chickens. This book is designed for researchers and advanced-level students focused on computer science, earth science and geography as a reference or secondary text book. Practitioners working in the areas of data mining and geoscience will also find this book to be a valuable reference.

Data Mining for Geoinformatics: Methods and Applications, edited by G. Cervone, J. Lin and N. Waters

Hardcover: 185 pages

Publisher: Springer; August 26, 2013

Language: English

ISBN-10: 1461476682

ISBN-13: 978-1461476689

Extensive GIS bibliography

I would like to remind the SAM members of the existence of the large GIS Bibliography that is supported by Esri and that may be found online at

<http://training.esri.com/bibliography/index.cfm>

I started this bibliography while I was teaching at Ohio State and Esri has kindly carried it on since my retirement. Within Esri, the center of support for the activity is the Esri Library where Patty Turner and Colleen Conner continue to play major roles.

This bibliography covers the literature of geographic information systems and geographic science as well as selected materials in related technologies. It indexes journals, conference proceedings, books, and reports from the origins of GIS to the present. Also included are over 5,000 thesis and dissertations. Items from all the Esri User Conferences (including specialized/regional conferences) as well as many other Esri items have been added.

Currently the bibliography contains over 141 thousand items with several thousand more

awaiting processing. Most entries contain abstracts as well as standard citation materials, and the results of your searches may be downloaded for inclusion in your own bibliographies based upon software such as EndNote.

The software supporting the bibliography is currently being updated and should be operational before the end of this year. It should significantly improve search and retrieval activities. Comments and suggestions regarding the bibliography are always welcome and should be directed to me at:

dmarble@oregonfast.net

Duane Marble
Florence, Oregon

JOBS

Assistant or Associate Professor in Geographic Data Analytics at San Diego State University

The Department of Geography at San Diego State University (SDSU) is inviting applicants for a tenure-track Assistant Professor position in the area of geographic data analytics, with exceptional candidates considered at Associate Professor rank. Suitable applicants for this position are engaged in the development of computation-intensive data analytics methods, with applications across the spectrum of geographic science, supported by practical expertise in cognate areas, such as geocomputation, ontology engineering, large databases, cloud computing, mobile GIS, or cognitive science. This position is rooted in SDSU's new research cluster initiative in the area of *Human Dynamics in the Mobile Age* (<http://humandynamics.sdsu.edu/>), which springs from the convergence of new developments in spatial science, mobile technology, social web, and big data. It aims to foster transdisciplinary research collaborations to understand dynamic patterns, relationships, narrative, and changes in human activities and

behavior across space and time (e.g., health, migration, economic development, land use). The holder of this position will be eager to creatively engage with the heterogeneous data sources and analytical approaches of diverse disciplines, especially within the cluster of excellence. The person appointed will be expected to collaborate with faculty members in developing the cluster's research agenda and pursuing external funding opportunities existing in this area. Candidates must have strong communication skills and teaching interests that complement and strengthen current curricular offerings of the Department in the area of geographic information science, bringing to the classroom expertise in hands-on computer programming, data engineering, and analytics. Among the expectations is the development of a new undergraduate class in computer programming aimed at geography majors.

Review of applications will begin **November 01, 2013**. A Ph.D. should be in-hand at the start of the appointment. Applicants should submit: (1) an application letter describing how they would contribute to the department's research and teaching program and the cluster of excellence; (2) a complete curriculum vitae; (3) up to 4 digital reprints of relevant publications; and (4) names and contact information of three references.

Requests for additional information and/or letters of application should be directed to Dr. Ming-Hsiang Tsou, Search Committee Chair, Department of Geography, San Diego State University, 5500 Campanile Drive, San Diego, CA 92182-4493. Email: mtsou@mail.sdsu.edu Phone: (619) 5940205. Fax: (619) 5944938.

San Diego State University is an equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age disability, pregnancy, medical condition, or covered

veteran status. The person holding this position is considered a "mandated reporter" under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

GIScience doctoral student opportunity

The Center for Applied GIScience (CAGIS) at the University of North Carolina at Charlotte is seeking a PhD student in the domain of GIScience. The ideal candidate should have strong interest in spatiotemporal simulation, big spatial data, CyberGIS, and their applications in coupled human and natural systems. CAGIS (<http://gis.uncc.edu>) is an interdisciplinary research center that focuses on using advanced space-time theories, methods, and technologies in cutting-edge Geographic Information Science for complex geographical problem-solving. For more information, contact Dr. Wenwu Tang (Email: WenwuTang@uncc.edu; Phone: 1-704-687-5988).

CALLS AND MEETINGS

Sessions around the theme of Spatial Epidemiology @ AAG at Tampa, Florida (2014)

Several sessions around the theme of spatial and spatiotemporal epidemiology will be organized at the coming 2014 AAG Annual Meeting in Tampa, Florida (April 8-12). The sessions focus on the development of spatial and spatiotemporal methodology to answer fundamental epidemiological questions. Sample topics include:

- Spatiotemporal modeling
- Geovisualization and geocomputation for big data

- Point pattern analysis and disease movement analysis
- Use of geospatial techniques in health (GPS, GIS)
- Preventing the spread of disease
- Accessibility to medical care, estimating travel impedance
- Modeling uncertainty

Email Tijs Neutens (Tijs.Neutens@UGent.be) or Eric Delmelle (eric.delmelle@uncc.edu) the title, abstract, author information and AAG PIN by October 15 2013 to be included in one of the sessions.

Organizers:

Tijs Neutens (Tijs.Neutens@UGent.be)

University of Ghent, Belgium

Eric Delmelle (eric.delmelle@uncc.edu)

University of North Carolina,

Charlotte

Co-organizers:

Mei-Po Kwan, University of Illinois at Urbana-Champaign

Antonio Paez, McMaster University, Canada

Debarchana Ghosh, University of Connecticut

Gerry Rushton, University of Iowa

Elizabeth Dowling Root, Colorado University at Boulder

John DeGroot, University of Northern Iowa

Xun Shi, Dartmouth College

Chris Uejio, Florida State University

Brian Bossak, Florida Gulf Coast University

CFP: Land Systems Science at AAG 2014

Building on the Symposium on Land Systems Science, held at AAG in Los Angeles in 2013, a series of sessions on land systems science will be held in at AAG in Tampa in 2014. This year the call is open for papers across the diverse themes of land systems science. Potential topics include land system dynamics, land

change, measurement and monitoring of change, land system architecture, ecosystem services, human dimensions of land systems, environmental dimensions of land systems, and many others.

Individual papers will be grouped into appropriate sessions based on submissions received; alternately, sessions of 5 papers with a related focus can be proposed.

Titles and abstracts for papers, conforming to AAG annual meeting guidelines, initially should be submitted to Richard Aspinall (r.aspinall@abdn.ac.uk) as soon as possible, and before 31st October 2013.

Note also that the deadline for early registration for AAG is 23rd October 2013, and the final deadline for abstract submission through the AAG website is 3rd December 2013.

11th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences
Kellogg Conference Center, Michigan State University
East Lansing, Michigan, USA
July 8-11, 2014

Spatial Accuracy 2014 is the latest in an academic conference series held every two years since 1994. The symposium attracts participants from all over the world, in a diverse range of academic and professional fields, including geography, statistics, and the environmental sciences. Accuracy 2014 is concerned generally with cutting-edge approaches for characterizing uncertainty in spatial data and computational models about environmental or natural resources phenomena. It will feature technical workshops, dynamic keynote talks, and paper and poster sessions. Submissions on both theoretical and applied topics are welcome. More information about the series, including papers from past symposia, is available at the main Spatial Accuracy website.

All presentations, oral and poster, are peer-reviewed. Spatial Accuracy has two distinct review tracks, with different length requirements, due dates, and publication fates:

Track A: Full papers (up to 2000 words), due December 6, 2013

Track B: Extended abstracts (up to 1000 words), due February 14, 2014

For more information:

Accuracy 2014 website:

<http://web2.geo.msu.edu/sa14/call-papers.html>

Spatial Accuracy Research Association:

<http://www.spatial.accuracy.org>

We hope you consider joining us for a stimulating and productive meeting in Summer 2014!

CFP: Special Issue “Land Change Modeling: Connecting to the Bigger Picture”

Dear Colleagues,
Land change models are now part of the toolkit of environmental scientists and are increasingly being used to inform policy makers about the effects of socio-economic and institutional forces that drive the dynamics of landscape change. Changes on the terrestrial surface are implicated in a myriad of environmental problems ranging from local to global because of the complexity of life-supporting systems and their interconnection. As such, land change models have grown in importance and are much more than predicting or explaining the state of a pixel. This Special Issue welcomes articles that inform how land change models are being integrated with and how they are informing discussions about global climate change, human health, water resources and cycle, environmental services, landscape ecology, and social feedback through policy and

institutional change. Innovative approaches and new conceptual models that may help bridge and strengthen the connection between land and other natural systems are also of particular interest.

The deadline for submission is April 30 2014.

For more information, please contact the special issue guest-editor Eugenio Arima (arima@austin.utexas.edu) or access the website

http://www.mdpi.com/journal/land/special_issues/bigger-picture

Guest Editor - Dr. Eugenio Arima

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E-Mail: arima@austin.utexas.edu

Phone: +1 512 471 0714

COMPETITIONS

John Odland Award—SAM Student Paper Competition

The Spatial Analysis and Modeling (SAM) Specialty Group of the Association of American Geographers is sponsoring John Odland Award (SAM student paper competition) at the 2014 AAG Meeting in Tampa, Florida. The prizes will total a minimum of \$1000.

The competition is open to active undergraduate and graduate students who have previously not won the award. Papers may be of a theoretical or applied nature. They will be judged on the following criteria: (1) potential contribution to the use of mathematical models, statistical techniques and other technological and computational approaches for analyzing spatial phenomena in any subfield of geography; (2) appropriate and

sound use of methodology; (3) originality; (4) organization and written composition of the paper; and (5) quality of oral presentation.

Students wishing to enter the competition should submit the title and 250-word abstract of their paper to SAM Board Member Joni Downs (downs@usf.edu) after registering to attend the 2014 AAG. Students should also include the PIN from their registration so that SAM can coordinate with the AAG to place competition papers into special sessions. The deadline to enter the competition is October 23, 2013. All students entering the competition must submit their completed papers in .doc or .pdf format to the same e-mail address (downs@usf.edu) by 1 March, 2014. Late submissions will not be accepted.

The paper must be based on research primarily conducted while the student was at an accredited university. Each entrant must submit a statement with their completed paper from a university faculty member, preferably their undergraduate or graduate advisor, describing the role of the student in completing the paper. The same paper may not be submitted multiple years.

The title page of the submitted paper should include the name, current affiliation, mailing address, telephone number and e-mail address of the entrant. The following page should include only the title of the paper and an abstract. No identifying information should appear anywhere else than on the title page of the paper. Papers should be no longer than 35 double-spaced pages, including tables, figures and references.

A panel of judges will review the papers before the AAG meeting. The judges will also evaluate student presentations. The winner(s), if any, will be announced at the SAM specialty group business meeting and at the AAG Awards

Luncheon. The judges' decision, including the possibility of not awarding a prize, is final.

Questions about the competition also can be directed to downs@usf.edu.

INFORMATION

Spatial Analysis and Modeling (SAM)

Our mission is to foster and maintain interaction, cooperation and community among individuals interested in the analysis of geo-referenced data, modeling of spatio-temporal processes and the use of analytical and computational techniques in solving geographic problems. The specialty group promotes the scientific study of physical, environmental and socioeconomic geography and the development, use and teaching of analytical cartography, GIS, remote sensing, spatial statistical, mathematical and computational techniques for spatial analysis. For more information, see the SAM-SG homepage (<http://sam-aag.sdsu.edu/>).

Membership Dues

Regular: \$6
Student: \$1

Submissions

This newsletter reaches a large number of readers and is therefore an excellent venue for getting the word out on community news, departmental happenings, research findings, media appearances, and the like. It is also a good place to post calls for proposals, awards, grants, fellowships, and jobs. We also invite you to submit commentaries or features of broad interest to specialty group members.

The newsletter relies on volunteers to submit articles, so please take a moment to send along relevant items.

Please send your submission by email to Jennifer Miller (Jennifer.miller@austin.utexas.edu) in text or rich text format. Photos or other images, with captions, are also welcome (GIF, JPG, or PNG).

SAM Newsletter Editor

Jennifer Miller

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