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## Our Complex World: Representation, Analysis and Modeling

### Call for Papers for Joint Workshops

#### ICA GAM 2011

4th ICA Workshop on Geospatial Analysis and Modeling

and

#### WebMGS 2011

ISPRS WG IV/5 2nd International Workshop on  
Pervasive Web Mapping, Geoprocessing and Services

August 10-12, 2011

Simon Fraser University

Burnaby, British Columbia, Canada

<http://www.sfu.ca/dragicevic/workshops2011>



SIMON FRASER UNIVERSITY  
THINKING OF THE WORLD



# ICA GAM 2011 :: Call for Papers



## 4th ICA Workshop on Geospatial Analysis and Modeling

August 10-12, 2011, Burnaby, British Columbia, Canada

### BACKGROUND AND SCOPE

Following the success of three previous workshops, we are pleased to announce that the Fourth International Cartographic Association (ICA) Workshop on Geospatial Analysis and Modeling will be held from August 10-12, 2011 at Simon Fraser University (SFU), Burnaby, Canada. Given the traditions of the workshop series, we aim at bringing together leading researchers from relevant subject fields to address issues related to the complexity of dynamic geographical and environmental systems from a geospatial analysis and modeling perspective. The overall focus will be to examine the conceptual, technical and application challenges of complexity science as a paradigm to effectively analyze the linkages between social, economic and natural systems evolving in time and across geographic space. The workshop is organized by the ICA Commission on Geospatial Analysis and Modeling, and sponsored by Simon Fraser University, the MoCSSy Program and IRMACS Center at SFU. Researchers will have the opportunity to share knowledge, exchange scientific ideas and results, and develop long term research collaborations.

### WORKSHOP TOPICS

The topics will focus on but not limited to the following areas:

- Cellular automata and agent-based modeling
- Visual analytical tools for environmental & urban systems
- Analysis of human movement data
- Spatio-temporal data mining
- Small-world modeling and spatial interactions
- Hierarchies, scaling & structures of geographic patterns
- Modeling vehicle dynamics and crowd behavior
- Patterns of human spatial behavior and migration
- Urban high-resolution morphology
- Evolutionary computing

### PAPER SUBMISSIONS

You are invited to submit papers of 6000-7000 words dealing with original and unpublished research on themes related to the Workshop. Submitted papers will be refereed for quality, originality and relevance by the Scientific Committee. All papers should be in English, MS Word format and with figures and tables positioned correctly within the text. Format all papers according to the MLA style described at the website <http://www.lib.sfu.ca/sites/default/files/9761/mla.pdf>. In addition, papers should include all authors affiliation and email, five keywords and an abstract of up to 300 words. Accepted papers will be published in the conference proceedings provided at least one author is registered for the conference before the early registration date. Selected papers will be invited to be extended for peer-review with possible publication in a Journal special issue or Edited Book.

Submit your paper at: <https://www.easychair.org/conferences/?conf=icagam2011>

### SCHEDULE

Due date for receiving papers: ~~April 27, 2011~~ **May 18, 2011**

Acceptance notification: **May 27, 2011**

Early registration date: **June 15, 2011**

Workshop date: **August 10-12, 2011**

### WORKSHOP CHAIR AND ORGANIZER

**Suzana Dragičević**, Simon Fraser University, Canada  
geospace@sfu.ca

### WORKSHOP CO-CHAIR

**Bin Jiang**, University of Gävle, Sweden  
bin.jiang@hig.se

### WORKSHOP WEBSITE

<http://www.sfu.ca/dragicevic/workshops2011>

### SCIENTIFIC COMMITTEE

**Gennady Andrienko**, Fraunhofer Institute of IAIS, Germany

**Yifang Ban**, Royal Institute of Technology, Sweden

**Itzhak Benenson**, Tel Aviv University, Israel

**Tao Cheng**, University College London, UK

**Daniel Griffith**, University of Texas Dallas, USA

**Yan Liu**, The University of Queensland, Australia

**Feng Lu**, Chinese Academy of Science, China

**Danielle Marceau**, University of Calgary, Canada

**Harvey Miller**, University of Utah, USA

**Tony Moore**, University of Otago, New Zealand

**Nikos Salingaros**, University of Texas San Antonio, USA

**Raja Sengupta**, McGill University, Canada

**Zhenjiang Shen**, Kanazawa University, Japan

**Daniel Sui**, Ohio State University, USA

**Jean-Claude Thill**, University North Carolina Charlotte, USA

**Xiaohua Tong**, Tongji University, China

**Paul Torrens**, Arizona State University, USA

**Xiaojun Yang**, Florida State University, USA

**Xiaobai Angela Yao**, University of Georgia, USA

## WebMGS 2011 :: Call for Papers



### ISPRS WG IV/5 2nd International Workshop on Pervasive Web Mapping, Geoprocessing and Services

August 10-12, 2011, Burnaby, British Columbia, Canada

#### BACKGROUND AND SCOPE

The workshop will take place at Simon Fraser University (SFU), Burnaby, Canada from August 10-12, 2011. It is the second of a series of ISPRS WG IV/5 workshops that provide a dedicated scientific forum for researchers, professionals, government decision-makers and students to exchange and discuss current and state of the art advances in web-based mapping, geospatial information services and applications. The workshop emphasizes a diverse topic range related to the new web-based development of geospatial theories, technologies and solutions. The workshop is organized by ISPRS WG IV/5 in collaboration with ISPRS WG IV/1 and IV/4, sponsored by Simon Fraser University, the MoCSSy Program and IRMACS Center at SFU. Researchers will have the opportunity to share knowledge, exchange scientific ideas and results, and develop long term research collaborations.

#### WORKSHOP TOPICS

The topics will focus on but not limited to the following areas:

- Web-based analysis and mobile applications
- Geospatial web architecture and system design
- Geospatial web semantics and ontology
- Intelligent web mapping/GIS services
- Open source solutions and specifications
- 2D/3D visual effects and internet geovisualization
- Security and copyright for the geospatial web
- Automatic web geoprocessing and workflows
- Geocollaboration and map mashups
- Cartographic theories & web mapping interfaces
- Web-based virtual geospatial environments
- Quality assessment of web-based data sources
- Web-based SDSS and PPGIS
- Web-based mapping and GIS for education

#### PAPER SUBMISSIONS

You are invited to submit papers of 6000-7000 words dealing with original and unpublished research on themes related to the Workshop. All papers must be formatted using the ISPRS author's guidelines that can be accessed at the website <http://www.isprs.org/documents/orangebook/app5.aspx>. Submitted papers will be refereed for quality, originality and relevance by the Scientific Committee. In addition, papers should include all authors affiliation and email, five keywords and an abstract of up to 300 words. Accepted papers will be published in the conference proceedings provided at least one author is registered for the conference before the early registration date. Selected papers will be invited to be extended for peer-review with possible publication in a Journal special issue or Edited Book.

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**Suzana Dragičević**, Simon Fraser University, Canada  
geospace@sfu.ca

#### WORKSHOP CO-CHAIRS

**Songnian Li**, Ryerson University, Canada  
snli@ryerson.ca

**Maria Brovelli**, Politecnico di Milano, Italy  
maria.brovelli@polimi.it

**Bert Veenendaal**, Curtin University, Australia  
B.Veenendaal@curtin.edu.au

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#### SCIENTIFIC COMMITTEE

**Maria Brovelli**, Politecnico di Milano, Italy

**Arnulf Christl**, OSGeo President, Germany

**Laura Diaz**, Universitat Jaume I, Spain

**Andreas Donaubauer**, ETH Zurich, Switzerland

**Jianya Gong**, Wuhan University, China

**Jie Jiang**, National Geomatics Center of China, China

**Ari Jolma**, Helsinki University of Technology, Finland

**Songnian Li**, Ryerson University, Canada

**Steve Liang**, University of Calgary, Canada

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**Ming-Hsiang Tsou**, San Diego State University, USA

**Bert Veenendaal**, Curtin University, Australia

**Paolo Zatelli**, Università di Trento, Italy