



Modelling Geographical Systems Commission
Geographic Information Science Commission

An Invitation to a Joint Workshop on

Advanced Geographical Analysis and Modeling 2010 Neve Ilan, July 08-10, 2010

<http://www.agam2010.tau.ac.il>

We would like to invite you to participate in a workshop that will be an exciting opportunity to explore with other scholars issues related to geospatial analysis and modeling. The increasing availability of geographic information and new spatial models originating in physics, economics and regional science pose a challenge and present an opportunity for Geographic Information Science.

We call for papers that (1) develop new models and tools for spatial analysis and modeling, (2) apply these tool to spatial data in order to obtain novel geographic knowledge.

Relevant topics include, but are not limited to the following:

Geographic data and spatial knowledge

- Geographic data infrastructure and integration
- Spatial data quality and uncertainty
- Spatio-temporal data mining and knowledge discovery
- Cognitive and multicultural aspects of spatial knowledge

Socio-spatial networks

- Neural networks and fuzzy modeling
- Spatial network modeling and topological analysis
- Small world and spatial system
- Topological analysis of geographic system

Human mobility

- Analysis of vehicle and pedestrian movement
- Modeling vehicle traffic dynamics and crowd behavior
- Patterns and modeling of residential mobility and migration
- Traffic monitoring and prediction

Advanced spatial analysis, modeling and visualization

- Spatial modeling algorithms and GIS architectures
- Cellular Automata
- Agent-Based modeling
- GIS Web applications
- Location-based services
- Spatial decision support systems
- Visualizing and Virtual geographical environment

We are issuing this invitation almost a year before the meeting hoping that we can receive commitments early and so that we may be able to organize the publication of a special issue in one of the leading journals or a book that will include the papers to be presented at the meeting.

Schedule

Deadline for receiving papers:
25 February 2010
Acceptance notification:
25 April 2010

Workshop: July, 08-10, 2010

Publications

Proceedings will be organized before the workshop. The papers selected after their presentations at the workshop will follow a peer-review process for publication in one of the leading journals.

Workshop organizers

Daniel Czamanski,
Technion – Israel Institute of
Technology
Itzhak Benenson,
Tel Aviv University
Maxim Shoshani,
Technion– Israel Institute of
Technology

Program committee

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Contacts

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Paper format and submission

All manuscripts of 4000-6000 words should be in English, Microsoft Word format, single column, single-spaced with figures and tables within the text. The manuscripts should contain authors' affiliations and emails, abstract (no longer than 300 words), and up to five keywords.

To submit, login to EasyChair at: <http://www.easychair.org/conferences/?conf=agam2010>