



Commission on Geospatial Analysis and Modeling

<http://fromto.hig.se/~bjg/ica/>

Introduction to the ICA Commission

The International Cartographic Association (ICA) commission was established in August 2007, following an official approval of the 14th General Assembly of the ICA. The full name of commission is the International Cartographic Association Commission on Geospatial Analysis and Modeling.

While retaining their significant role in collecting geospatial information from various sources and using various means, current Geographic Information Systems (GIS) have been gradually shifting to the quest of geospatial knowledge from massive geospatial information. This shift is triggered mainly by significant advances of GIS technologies involving the Global Positioning System (GPS), remote sensing, digital mapping, and other emerging location sensing technologies. Nowadays, we are surrounded by overwhelming information, most of which can be referenced to Earth, forming what is commonly called geospatial information. For instance, Google Maps and Google Earth have integrated terabytes of satellite imagery, aerial photos, and digital maps, and ordinary people using their regular Internet connected PC can zoom from space right down to street level, and easily pinpoint their individual houses. However, it is geospatial knowledge, in forms of patterns, structures, relationships, and rules, rather than the spatial information assembled, that would significantly contribute to solving real world problems. It is in this context that the ICA Commission was established, and finds its unique position in the international society.

The commission is currently coordinated by Professor Bin Jiang, University of Gävle, Sweden. Should you have any suggestion about the commission and the activities being carried out, please feel free to contact us.

Terms:

- ICA working group on geospatial analysis and modeling (2005-2007)
- ICA commission on geospatial analysis and modeling (2007-2011)

ICA Workshop Series on Geospatial Analysis and Modeling

- July 8, 2006, Vienna, Austria
- July 12-13, 2007, Athens, GA, USA
- August 6-7, 2009, Gävle, Sweden
- August 10-12, 2011, Simon Fraser University, Canada

Edited Special Issues or Book:

- Benenson I. (editor, 2011), Special issue on geospatial analysis and modeling, *Computers, Environment and Urban Systems*, 35(2), 91-182, Elsevier.
- Jiang B. and Yao X. (editors, 2010), *Geospatial Analysis and Modeling of Urban Structure and Dynamics*, Springer: Berlin.
- Yao X. and Jiang B. (editors 2009), Special issue on geospatial modeling of urban environments, *Environment and Planning B: Planning and Design*, 36(5), 769-882, Pion Ltd.
- Jiang B. (editor 2007), Special issue on geospatial analysis and modeling, *Computers, Environment and Urban Systems*, 31(5), 477-616, Elsevier.



Sponsored or Organized Meetings:

- GeoViz Hamburg 2011: Linking Geovisualization with Spatial Analysis and Modeling, March 10-11, 2011 (with ICA commission on geovisualization)
- Tutorial on Modeling Urban Complexity and Hierarchy, June 23, 2011, in conjunction with Geoinformatics 2011, June 24-26, 2011, Shanghai, China (with CPGIS)
- International Conference on Spatial Planning and Sustainable Development, 29-31 July, 2011, Kanazawa city, Japan (with University of Kanazawa)
- ICA Workshop on Advances in Sensors and Algorithms for Topographic and Thematic Mapping 18-19 November 2010, Orlando, Florida, USA (with ICA commission on mapping from satellite imagery)