



# Commission on Geospatial Analysis and Modeling

<https://sites.google.com/site/commissionofica/>

## 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, and secured the second term in July 2011. 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 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, and Professor Xiaobai Yao, University of Georgia, USA. Should you have any suggestion about the commission and the activities being carried out, please feel free to contact us.

## Terms:

- ICA commission on geospatial analysis and modeling (2011-2015)
- ICA commission on geospatial analysis and modeling (2007-2011)

## Workshops and tutorials organized during the term

- 4th ICA workshop on geospatial analysis and modelling, August 10-12, 2011, Burnaby, British Columbia, Canada
- A Full-Day Tutorial on modeling urban complexity and hierarchy, June 23, 2011, in conjunction with GeoInformatics 2011, June 24-26, 2011, Shanghai, China
- AGILE workshop on complexity modelling for Urban Structure and Dynamics, 24 April 2012, Avignon, France
- GIScience 2014 tutorial on on big data analytics, Vienna, September 23rd, 2014
- ICA workshop on Street Networks and Transport, 23-24 August, 2013, Dresden, Germany
- International Conference on Location-Based Social Media Data, March 13-14, 2015, Athens, GA, USA

## Edited Special Issues:

- Jiang B. and Thill J. C. (editors, forthcoming), Special issue on geospatial analysis of volunteered geographic information, *Computers, Environment and Urban Systems*, xx(x), xx-xx, Elsevier.
- Jiang B. and Okabe A. (editors, 2014), Special issue on street networks and spatial analysis, *Geographical Analysis*, 46(4), 341-455, Wiley.
- Benenson I. and Jiang B. (editors, 2012), Special issue on urban and regional modeling versus planning practice: bridging the gap, *Journal of Urban and Regional Information Systems Association (URISA Journal)*, 24(1), 5-92, URISA.
- Benenson I. (editor, 2011), Special issue on geospatial analysis and modeling, *Computers, Environment and Urban Systems*, 35(2), 91-182, Elsevier.
- Andrienko G., Dykes J., Jiang B., and Schiewe J. (editors, 2011), GeoViz - Linking geovisualization with spatial analysis and modeling, Cartographica: *The International Journal for Geographic Information and Geovisualization*, 46(4), 209-261, University of Toronto Press: Toronto.
- Jiang B. (editor, 2011), Special issue on data-intensive geospatial computing, *International Journal of Geographical Information Science*, 25(8), 1217-1322, Taylor & Francis: London.



## Sponsored or Organized Meetings:

- GeoViz Hamburg 2011: Linking Geovisualization with Spatial Analysis and Modeling, March 10-11, 2011 (with ICA commission on geovisualization)
- International Conference on Spatial Planning and Sustainable Development, 29-31 July, 2011, Kanazawa city, Japan (with University of Kanazawa)