



## CPGIS 25<sup>TH</sup> ANNIVERSARY

### CPGIS BOD 2016-2017

#### CHAIR



Shixiong Hu

#### MEMBERS



Kai Cao



Song Gao



Jianya Gong



Peng Jia



Xia Li



Wenwen Li



Wei Luo



Lan Mu



Daoqin Tong



Xinyue Ye



Xiang Ye



Yihong Yuan

[\(More details\)](#)

### The Past and Future 25 Years

In 1992, two graduate students in Geography, Hui Lin and Yuemin Ding, decided to organize an international conference, they hope to bring top geographic information scientists to Western New York for what would become the first annual International Conference on Geoinformatics. The conference led to the formation of the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS).



Founding BOD members in the 1st CPGIS Annual Conference



Attendees in the 25<sup>th</sup> CPGIS Annual Conference

Over the following 25 years, CPGIS has grown into a globally influential GIScience organization, with its annual conference held in different parts of the world, its own peer-reviewed journal, and 1,400 members.

This year, 2017, under the theme of Past and Future 25 Years, 240 participants from 89 universities and corporates around the world, along with 50 family members, gathered at CPGIS's birthplace Buffalo to celebrate the 25th anniversary of CPGIS.

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## Keynote Speeches



**Prof. Luc Anselin**  
Topic: The many faces of spatial clustering



**Prof. Michael Batty**  
Topic: Geo-temporal analytics in the age of the smart city



**Prof. Jingming Chen**  
Topic: Mapping leaf chlorophyll content: a new way to improve global carbon cycle estimation



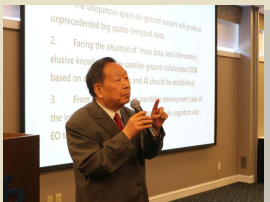
**Prof. Jianya Gong**  
Topic: GISs development in China during recent 25 years



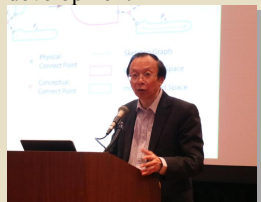
**Prof. Michael Goodchild**  
Topic: Rethinking the history of GIS



**Prof. Huadong Guo**  
Topic: Framework research of a big earth data platform for sustainable development



**Prof. Deren Li**  
Topic: From earth observation satellite to earth observation brain



**Prof. Anthony Yeh**  
Topic: Navigation paths as polygons - polygonization method in automatic generation and updating of outdoor vehicle and indoor pedestrian navigation GIS

## 2017 CPGIS Annual Conference

From August 2-4, 2017, the National Center for Geographic Information and Analysis at Buffalo (NCGIA-Buffalo) proudly hosted the 25th Anniversary Conference in the place Buffalo, New York, USA where it all began, giving leading scientists a forum to discuss the latest trends in GIS.

In line with the interdisciplinary nature of this cutting-edge field, the conference addressed a wide range of crucial topics. Keynote speakers at this year's conference include members of the Chinese Academy of Sciences and the U.S. National Academy of Sciences, and fellows of The Royal Society in the U.K. and the Royal Society of Canada. The conference's keynote speakers are:

- Prof. Luc Anselin  
University of Chicago, a member of the U.S. National Academy of Sciences.
- Prof. Michael Batty  
University College London, a fellow of The Royal Society in the U.K.
- Prof. Jing M. Chen  
University of Toronto, a fellow in the Royal Society of Canada.
- Prof. Jianya Gong  
Wuhan University, an academician of the Chinese Academy of Sciences.
- Prof. Michael Goodchild  
University of California, Santa Barbara, a member of the U.S. National Academy of Sciences.
- Prof. Huadong Guo  
Institute of Remote Sensing and Digital Earth, an academician of the Chinese Academy of Sciences.
- Prof. Deren Li  
Wuhan University, an academician of the Chinese Academy of Sciences and the Chinese Academy of Engineering.
- Prof. Anthony Yeh  
University of Hong Kong, an academician of the Chinese Academy of Sciences.



## Panel and Paper Sessions



The conference featured an unusually large number of world-class keynote speakers whose insights will make profound influences to future GIScience development. The highlights of this conference also included impressively high-quality papers and a strong presence of a young generation of researchers and students. Through the parallel papers sessions, cutting-edge panels, and student paper competition sessions, researchers and students exchanged novel ideas and knowledge on geographic information sciences and technologies.

### Panel sessions

- Career Development Panel (Ballroom 1)  
Panel Organizer: Weihe Guan
- Health & GIS Panel (Ballroom 2)  
Panel Organizer: Mei-Po Kwan
- Supporting Women in GIS Panel (Ballroom 1)  
Panel Organizer: Lan Mu
- Smart City Panel (Ballroom 2)  
Panel Organizers: Shih-Lung Shaw, Daniel Sui

### Other Sessions

- Daniel Sui  
(Ohio State University and NSF, USA)
- Liang Wu (Ballroom 4)  
(President, Zondy Cyber)
- Qinge Du (Ballroom 5)  
(Vice President, SuperMap)



## Social Activities



Participants enjoyed activities of the Niagara Falls Night and CPGIS Night, reunited with old friends, met new ones, and networked with each other to plan future collaborations. Among them, 17 CPGIS founders and 19 CPGIS presidents across 25 years united at the historical location to share retrospect and prospect of past success and future development. 22 University at Buffalo alumni emotionally lingered on campus and other places memorable back in their student years. Special recognition went to 15 academic institutions, corporates, and individuals who generously sponsored the conference. The administration of the University at Buffalo provided financial, personnel, news communication, and administrative support to the conference. Also, close to 30 student volunteers donated their time, effort, and talent to the success of the landmark event.

- Niagara Falls night

- Boat ride on Maid of the Mist
- Tour at Niagara Falls
- IMAX Movie
- Lighting display of Niagara Falls

- CPGIS Night

- Dinner
- Special Awards Presentation
- Special Remarks & Acknowledgement
- Entertainment

Highlights of the conference:

<http://www.ncgia.buffalo.edu/cpgis/gallery.html#Gallery>

Organizing Committee, the 25th International Conference on Geoinformatics



## Announcements

### 2017 CPGIS Awards

The 25th International Conference on GeoInformatics (GeoInformatics 2017), organized by the CPGIS, was held in Buffalo, NY, USA (August 2–4, 2017). Below is the list of CPGIS awards and student paper competition winners.



### The List of 2017 CPGIS Awards

#### THE AWARDEES

CPGIS Life-Time Achievement Award:

Anthony Gar-On Yeh  
Chair Professor and Chan To-Haan  
Professor in Urban Planning  
and Design Department of  
Urban Planning and Design  
Faculty of Architecture,  
The University of Hong Kong



CPGIS Distinguished Scholar Award:

Mei-Po Kwan  
Professor, Department of Geography  
and Geographic Information Science,  
University of Illinois at  
Urbana-Champaign

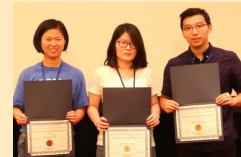


CPGIS Education Excellence Awards:

Jay Lee  
Professor of Geography,  
Kent State University



A-Xing Zhu  
Professor of Geography,  
University of Wisconsin-Madison



2017 Picture Location Identification  
Competition Recipients

First-Place: Xiang Ye  
(University at Buffalo)  
Second-Place: Song Gao  
(University of California, Santa Barbara)  
Third-Place: Wei Luo  
(Northern Illinois University)

2017 Student Paper Competition Winners

First-Place: Xiao Huang  
(University of South Carolina)  
Second-Place: Dameng Yin  
(SUNY Buffalo)  
Third-Place: Ruiting Zhai  
(University of Connecticut)  
Mingjie Song (Queen's University)

Travel Awards

Yao Feng (Queen's University)  
Ying Jin  
(Huazhong Agricultural University)  
Zhanghua Li (Tsinghua University)  
Jianjun Xia (Tsinghua University)  
Meifang Li (Sun Yat-Sen University)



## News

### 2017 CPGIS BOD meeting held in Buffalo, New York



The CPGIS BOD meeting was held successfully at the 25th International Conference on Geoinformatics in Buffalo on Aug. 4, 2017. During the meeting, CPGIS President Prof. Xinyue Ye, CPGIS Founder and Inaugural President Prof. Hui Lin, President-elect Prof. Jianya Gong, and CPGIS Committee Chairs reported their work for the past year and discussed the future direction of CPGIS.

### 2017 CPGIS Business Meeting and Dinner held in Chicago



The CPGIS annual business meeting was held on April 6, 2017 (Thursday) at Hynes Convention Center in Boston, MA. The CPGIS annual dinner was held on the evening of April 6, 2017 (Thursday) at one of the well-known Chinese restaurants in Boston: Sichuan Gourmet (老四川). Special thanks to the generous financial support from CPGIS and the AAG (through CPGIS's past president Mei-Po Kwan), which making this fee possible.

### The 8th Symposium on the Spatial Humanities and Social Sciences



The 8th Symposium on the Spatial Humanities and Social Sciences was held successfully in Ho Hai University on July 23, 2017. The theme of this symposium is *Spatially Integrated Humanities And Social Sciences : Fusion & Innovation*. About 200 scholars and students participated in the conference. Prof Xinyue Ye, president of CPGIS gave opening speeches at the conference. Keynote speakers are Prof. Chaolin Gu, Prof. Bo Huang, Prof. Bin Jing, Prof. Jisheng Shou, Prof. Jinfeng Wang, Prof. Fang Yang and Prof. Yukun Zhang.

## The 1st International Symposium on Life-course Epidemiology and Spatial Science (ISLES)

-- July 2018 @Leiden, Netherlands

This event is a 5-day highly interactive workshop to be held in the Dutch national scientific center. World-renowned epidemiologists, public health researchers and spatial scientists will gather to identify current limitations/challenges in the field of spatial epidemiology (health geography) and discuss future research directions and protocols. pre-inquiries and early application are strongly encouraged to be addressed to Peng Jia ([jiapengff@hotmail.com](mailto:jiapengff@hotmail.com))

## Special Issue on “Computational Movement Analysis” in International Journal of Geographical Information Science

- Definition and detection of patterns in individual and collective movement
- Static and dynamic context in movement analysis
- Modeling and analyzing interactions
- Cross-scale movement analysis and classification
- Multi-sensor movement analysis
- Handling movement data streams and big data
- Simulation of movement
- Bridging the semantic gap between patterns and processes
- Real-world applications of movement analysis

Guest Editors

Somayeh Dodge; Patrick Laube; Jed Long; Robert Weibel

[Please click here for more information](#)

## Special Issue on “Representation and Analytical Models for Location-based Social Media Data and Tracking Data” in International Journal of Geographical Information Science

- Data models for the representation of social media data or tracking data
- Geo-ontology for social media data or tracking data
- Complexity science approaches to studying location-based big data.
- Agent-based simulations of human mobility and interaction patterns using location-based big data
- Scalability issues with social media data or tracking data
- Big data analytics of social media data or tracking data
- Place modelling and understanding using social media data or tracking data
- Big data approach to studying urban dynamics
- Data models that address quality or privacy issues of location-based big data

Guest Editor

Xiaobai Angela Yao; Haosheng Huang; Bin Jiang; Jukka Krisp

[Please click here for more information](#)

## Special Issue on “Spatial optimization for land use planning” in Transactions in GIS

- Quantitative modeling of objectives and constraints for land use planning
- Models and measures for spatial compactness and contiguity
- Design of optimization algorithms for effective and efficient spatial optimization in land use planning
- Spatio-temporal optimization for land use planning
- Spatial big data driven land use optimization
- High performance computing resources (Cluster or Cloud) integrated land use optimization
- Spatial land use planning (decision making) support system

Guest Editors

Kai Cao; Bo Huang

[Please click here for more information](#)

## ISPRS Journal of Photogrammetry and Remote Sensing Theme Issue “Point Cloud Processing”

- Deep learning for point cloud processing
- Point clouds from stereo, panoramas, camera phone images, oblique and satellite imagery
- Point cloud registration and segmentation
- High performance computing for large-scale point clouds
- 3D object recognition, classification, and change detection
- Large-scale urban modeling from aerial and mobile LiDAR
- 2D floorplan generation and 3D modeling of indoor point clouds
- Fusion of images and point clouds for semantic segmentation
- Industrial applications with large-scale point clouds
- Rendering and visualization of large-scale point clouds

Guest Editors

Ruisheng Wang; Bisheng Yang; Florent Lafarge; Suya You

[Please click here for more information](#)

## Special Issue on “Crowdsourced Geospatial Data Quality: Challenges and Future Directions” in International Journal of Geographical Information Science

- Quality and trust aspects of crowdsourced data
- Privacy and trust issues associated with crowdsourcing
- Demographic biases (age, social, geographical, cultural, or educational diversity) and the impacts on the quality of crowdsourced data
- Fitness for purpose of crowdsourced data and consistency across data sources
- Social, political, legal and cultural implications of crowdsourcing and citizen science
- Inference and cross-reference of crowdsourced data
- Technological development and best practices for crowdsourced data contribution
- Future directions of crowdsourcing projects

Guest Editor

Anahid Basiri; Bruno Martins; Giles Foody; Peter Mooney

[Please click here for more information](#)



## Awards/Achievement

### **Prof. Hui Lin received distinguished award from AAG**

Prof. Hui Lin received the E. Willard and Ruby S. Miller Award 2017 from The American Association of Geographers in its Annual Meeting held in Boston in early April, in recognition of his outstanding performance and important contribution in geographical research and teaching (<http://www.aag.org/cs/awards/miller>). Prof. Lin is the first recipient of this distinguished award from universities and research institutes in Asia.

### **Prof. Hui Lin received Research Mentorship Award**

Prof. Hui Lin has recently been awarded the Research Mentorship Award 2016 by the Faculty of Social Science in recognition of his outstanding performance and accomplishments in postgraduate supervision. He received congratulations from some of his current and former postgraduate students in the Faculty's Appreciation Achievement Award Celebration ceremony held on 18 March 2017.

### **Prof. Mei-Po Kwan received Alan Hay Award Award**

Prof. Mei-Po Kwan lately has been presented the 2017 Alan Hay Award in Transport Geography at the Annual Conference of the Royal Geographical Society with the Institute of British Geographers (RGS-IBG) in London, August 31, 2017.

## Resources

### **Photos of 2017 Annuals CPGIS is online:**

<http://www.ncgia.buffalo.edu/cpgis/gallery.html#Gallery>



### **Open Data Site Established for Hurricane Harvey**

An open data site has been set up to house data from authoritative sources relating to Hurricane Harvey. The site was launched by the U.S. Department of Homeland Security (DHS) as a central point of reliable data that can be used by local, state, Federal, tribal, private sector, and community partners.

GIS data, imagery, and other data sets are organized by category including: Emergency Services, Hazard & Incident Data, Community Resources, Imagery, and Base & Population Data. Data is available for download in CSV, KML, and Shapefile formats.

Visit: Homeland Infrastructure Foundation-Level Data (HIFLD) for Harvey <https://respond-harvey-geoplatform.opendata.arcgis.com/>



## *Future Events*

**2017 ISPRS Geospatial Week**

Wuhan, China

Conference Dates: September 18-22 2017

**ACM SIGSPATIAL GIS 2017**

Los Angeles, USA

Conference Dates: November 7 - 10 , 2017

**64th NARSC Conference**

Vancouver, Canada

Conference Dates: November 8-11, 2017

**ICUI 2017**

Hong Kong, China

Conference Dates: November 13 - 15, 2017

**ISGEI 2017**

Hong Kong, China

Conference Dates: December 12-15, 2017

**ASPRS Annual Conference 2018**

Denver, USA

Conference Dates: February 5-7, 2018

**2018 AAG Annual Meeting**

New Orleans, USA

Conference Dates: April 10-14, 2018

**GIScience 2018**

Melbourne, Australia

Conference Dates: August 28-31, 2018