

# The Annual Report of Modeling Geographical Systems

## Commission (MGSC) of International Geographical Union (IGU)

**Min Chen**

**01/03/2021**

### **A. Membership**

The MGSC consists of chair, secretary, honorary advisory member and steering committee member. There are 22 members in our commission. All members are listed as follows:

Chair:

Prof. Min Chen, [chenmin0902@163.com](mailto:chenmin0902@163.com), China

Secretary:

Dr. Xintao Liu, [xintao.liu@polyu.edu.hk](mailto:xintao.liu@polyu.edu.hk), China

Honorary Advisory Member:

Prof. Tony Jakeman, [tony.jakeman@anu.edu.au](mailto:tony.jakeman@anu.edu.au), Australia

Prof. Josef Strobl, [josef.strobl@sbg.ac.a](mailto:josef.strobl@sbg.ac.a), Austria

Prof. Guonian Lu, [gnlu@njinu.edu.cn](mailto:gnlu@njinu.edu.cn), China

Prof. Jinfeng Wang, [wangjf@Lreis.ac.cn](mailto:wangjf@Lreis.ac.cn), China

Prof. Mei-Po Kwan, [mpk654@gmail.com](mailto:mpk654@gmail.com), China

Prof. Xin Li, [xinli@itpcas.ac.cn](mailto:xinli@itpcas.ac.cn), China

Prof. R.B. SINGH, [rbsgeo@hotmail.com](mailto:rbsgeo@hotmail.com), India

Prof. Michael Batty, [m.batty@ucl.ac.uk](mailto:m.batty@ucl.ac.uk), UK

Prof. Luc Anselin, [anselin@uchicago.edu](mailto:anselin@uchicago.edu), USA

Prof. Stewart Fotheringham, [sfotheri@asu.edu](mailto:sfotheri@asu.edu), USA

Steering Committee Members:

Prof. Barry Croke, [barry.croke@anu.edu.au](mailto:barry.croke@anu.edu.au), Australia

Prof. Andreas Koch, [andreas.koch@sbg.ac.at](mailto:andreas.koch@sbg.ac.at), Austria

Prof. Rumiana Vatséva, [rvatseva@gmail.com](mailto:rvatseva@gmail.com), Bulgaria

Prof. Antonio Páez, [paezha@mcmaster.ca](mailto:paezha@mcmaster.ca), Canada

Dr. Karel Stane, [karst@geogr.muni.cz](mailto:karst@geogr.muni.cz), Czech Republic

Prof. Christophe Claramunt, [christophe.claramunt@gmail.com](mailto:christophe.claramunt@gmail.com), France

Dr. Erik Nixdorf, [erik.nixdorf@ufz.de](mailto:erik.nixdorf@ufz.de), Germany

Dr. Manish Kumar, [manish.ks@cuh.ac.in](mailto:manish.ks@cuh.ac.in), India

Prof. Tao Cheng, [tao.cheng@ucl.ac.uk](mailto:tao.cheng@ucl.ac.uk), UK

Prof. Paul Torrens, [torrens@geosimulation.com](mailto:torrens@geosimulation.com), USA

The counts of members by country:

Australia: 2

Austria: 2

Bulgaria: 1

Canada: 1

China: 6

Czech Republic: 1

France: 1

Germany: 1

India: 2

UK: 2

USA: 3

## **B. Meetings**

There is 1 meeting organized by our commission in the year 2019, details are as follows:

### **a) Meeting Info**

1. The 2nd Water Information Modeling and Comprehensive Simulation Forum

Location: School of Geography, Nanjing Normal University, China

Date: 12/26/2020

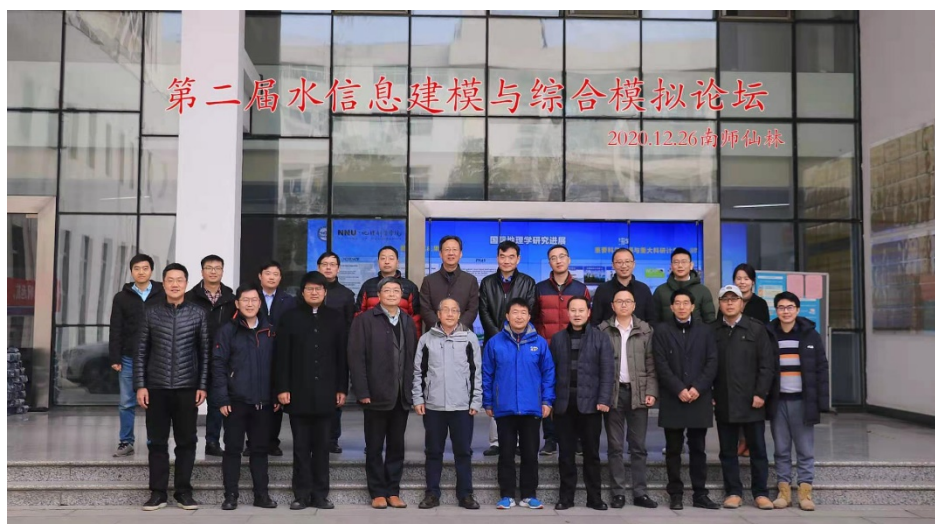
Numbers of participants: 80

### **b) Summary and Conclusion**

1. Brief summary: This forum discusses the cutting-edge progress and scientific breakthroughs related to water information modeling and comprehensive simulation, and provides researchers in this field with a platform to display scientific research results, exchanges academic ideas, inspires research thinking, enhances academic friendship, and strengthens inter-university cooperation.

Conclusions: This forum enhanced the communication of scholars in the field of water information modeling and promoted the sharing of hydrological models.

Meeting photos:





c) The meeting we plan to hold in the year 2020

1. The 2nd National Geographic Modeling and Simulation Forum

Location: Xianlin Hotel, Nanjing Normal University, China

Dates: 01/16/2021-01/17/2021

Topics: Developing localized geographic analysis models, building an autonomous model system ecosystem

## C. Networking

a) Our commission did not collaborate with other IGU Commissions and Task Forces during 2019-20.

b) Five international organizations collaborated with our commission during 2019-20

- (1) International Society of Urban Informatics (Hong Kong)
- (2) Commission on Geospatial Analysis and Modeling of International Cartographic Association (ICA)
- (3) International Environmental Modelling and Software Society (iEMSs)
- (4) Young Geographer Working Group (YGGWG) of Asian Geographical Association (AGA)
- (5) Education and Capacity Building for Digital Earth Committee of International Society for Digital Earth (ISDE)

## D. Publications

a) Special journal issue: Open Geographic Modeling, *Annals of GIS*

Brief Introduction: This special Issue targets on modeling our world based on an

open idea, which means the modeling methods could be interdisciplinary or the modeling related resources could be open source.

Guest Editors:

Prof. Daniel P. Ames

Department of Civil and Environmental Engineering, Brigham Young University,  
USA

E-Mail: [dan.ames@byu.edu](mailto:dan.ames@byu.edu)

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E-Mail: [yuesongshan@njnu.edu.cn](mailto:yuesongshan@njnu.edu.cn) or [yss123yss@126.com](mailto:yss123yss@126.com)

There is 1 paper has been published in the special issue online and 6 papers are under reviewing. The published paper is:

Yang, Lin, Yehua Sheng, Anping Pei, and Yi Wu. "3D spatial morphological analysis of mound tombs based on LiDAR data." *Annals of GIS* (2020): 1-11.

The papers in the special issue has not been cited yet.

b) Official website of our commission: <http://www.igu-geomodeling.com/>

## **E. Archival Contributions**

There are not any materials and publications transmitted to the IGU archives by our commission in the year 2019.

\* Since the term change of chair and committee of MGSC just came into effect from Aug, 2019, there are very few information we obtained from last term.