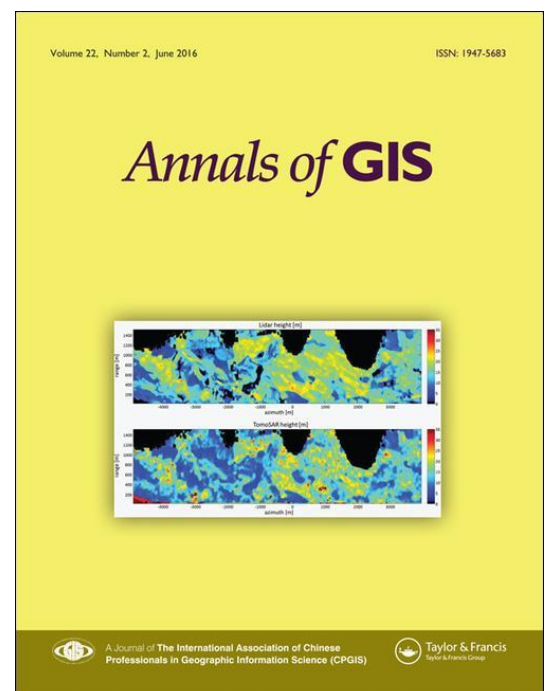# Open Geographic Modeling
Annals of GIS Special Issue Call for Papers

The earth's environmental system is a complex and synthetic system that includes massive and dynamic chemical, biological, and physical processes as well as complicated human activities. Due to this complexity, it is essential to integrate knowledge from multiple disciplines for solving complex geo-problems (refer to problems that occur in the geographic world, for example, global warming, air pollution, site selection, urban expansion planning, traffic congestion and so forth). And along with the process of exploring suitable solutions for a geo-problem, integrated environmental modeling, collaborative modeling, and participatory modeling are all important and effective approaches. In addition, studies on Future Earth (FE), Virtual Geographic Environment (VGE), E-Science and Service-Oriented Architecture (SOA)-based modeling also promoted environmental modeling towards more comprehensive geographic modeling which generally involves environmental and social disciplines as well as information technology (GIS, Cloud computing, web services, etc.). In this context, we propose a Special Issue that 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.

Our interest is in papers that cover a wide spectrum of topics, including, but not limited to, the following:

Environmental modeling

Integrated environmental modeling

Collaborative modeling

Participatory modeling

Human-activity modeling

Relationship between information and real world

Geographic information analysis

Spatiotemporal analysis and modeling

Big data mining

Scenario simulation and modeling

Social media modeling

Artificial intelligence, GIS, and remote sensing

Hydrology, climate change, air quality, terrestrial carbon cycle, etc.

Submission guidelines

Submission Deadline: September 30, 2020

Expected final decision: Dec 1, 2020

Editorial Information

Guest Editors

Prof. Daniel P. Ames

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

E-Mail: dan.ames@byu.edu

Prof. Barry Croke

College of Science, Australian National University, Australia

E-Mail: barry.croke@anu.edu.au

Dr. Songshan Yue

School of geography, Nanjing Normal University, China

E-Mail: yuesongshan@njnu.edu.cn or yss123yss@126.com