

# NSF Spatiotemporal Innovation Center



## April 2023 Monthly Newsletter

Edited by Seren Smith & Shyra LaGarde

Content provided by Wendy Guan, Seren Smith, Phil Yang, & Shyra LaGarde

Designed Yun Li, Ziyue Xu, & Seren Smith

May 10<sup>th</sup>, 2023

## Harvard Center Director gives a talk at KNIME's "Geospatial Analytics Made Easy With KNIME On-Demand Webinar"

Interested in geospatial data and how it can be used to build interactive applications?

KNIME latest webinar delves into the world of geospatial analytics, exploring what it is and why it's so relevant in today's data-driven landscape. The webinar isn't just informative - it's interactive too! The host shows the audience anyone can get involved with geospatial analytics, regardless of their technical background.

Wendy Guan gave a talk at KNIME's "[Geospatial Analytics Made Easy With KNIME On-Demand Webinar](#)" For more geospatial analytics examples, be sure to check the Geospatial Analytics Examples space on KNIME Community Hub. It's a treasure trove of inspiration and information for anyone interested in this fascinating area of data science.



### Introduction to Geospatial Data and GIS

In: [Geospatial Analytics Made Easy With KNIME](#)

By: Dr. [Wendy Guan](#), Executive Director

Center for Geographic Analysis, Harvard University

April 13, 2023

## The Symposium on Spatiotemporal Data Science

The [Spatial Data Lab \(SDL\)](#) is sponsoring a symposium focused on promoting replicable and expandable spatiotemporal data science using advanced methodology and innovative technology. The symposium will cover topics such as open data sources, advanced methodology, and cutting-edge technology for spatiotemporal data analysis, and their applications across various fields, including public health, business and economy, social media, remote sensing, environment, and education.

The symposium will feature plenary speakers, parallel sessions, and posters, with both onsite and online sessions planned. Selected high-quality papers presented at the symposium will be recommended for publishing in a special issue of a prominent journal in spatiotemporal data science, providing participants with an excellent networking and collaborative opportunity to learn about recent developments in the field.

Date: July 15, 2023 - July 16, 2023 (All day)

Location: 1730 Cambridge Street, Cambridge MA 02138

## The Application for the Summer Workshop on Spatiotemporal Innovation

The [Spatial Data Lab\\*](#) is organizing a workshop to promote replicable and expandable spatiotemporal data science using advanced methodology and technology. The workshop will cover topics such as methodology, functions, and workflow-based tools for spatiotemporal data analysis, and showcase case studies of their applications in various fields, including public health, business, social media, remote sensing, and environmental science. Additionally, the workshop will conclude with a spatiotemporal innovation symposium, where participants can present their research work. The workshop offers participants an excellent opportunity to network, collaborate, and develop their domain knowledge and leadership skills.

Click [HERE](#) for detailed information about the workshop.



**Spatial Data Lab**

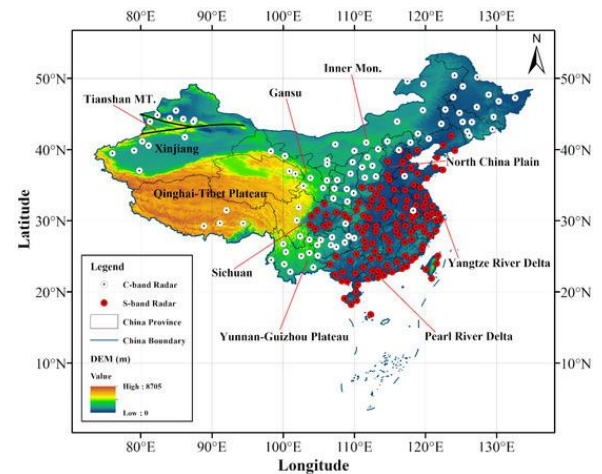
@Center for Geographic Analysis, IQSS

## The Special Issue

STC is collaboratively organizing the Special Issue of Big Earth Data for Climate Studies for the international journal Remote Sensing. Dr. Chaowei Yang, Dr. Daniel Q. Duffy, and Mr. Sudhir Shrestha guest-edit the issue and welcome manuscripts addressing Big Earth data, data processing and simulations based on big data, and new computing methods and information technologies. The webpage of the Special Issue “Big Earth Data for Climate Studies” is now online.

Check it out at the following link:

[https://www.mdpi.com/journal/remotesensing/special\\_issue/s/K5OCX36907](https://www.mdpi.com/journal/remotesensing/special_issue/s/K5OCX36907)



## Devika Jain and Jeffrey Blossom Co-Author Accepted Paper on FOSS4G Conference for June

Devika Jain and Jeff Blossom have an accepted paper and presentation entitled “A Comparative Study of Methods for Drive Time Estimation of Geospatial Big Data: A Case Study in the U.S.” at the FOSS4G conference, scheduled for June 26<sup>th</sup> to July 2<sup>nd</sup>. The exact time of this presentation is to be determined. For more details, see:

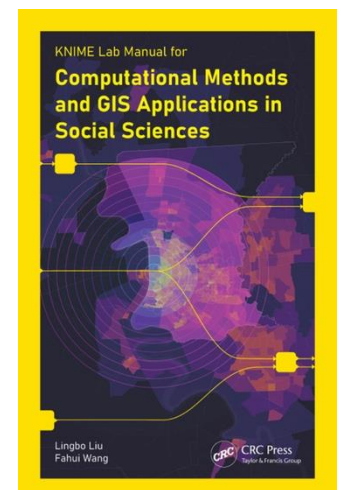
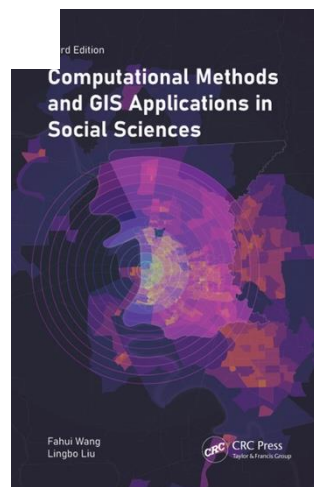
<https://gis.harvard.edu/event/comparative-study-methods-drive-time-estimation-big-geospatial-data-case-study-us>

## New Book by Lingbo Liu Set to Release This Summer

Lingbo Liu has a book accepted by the publisher, to be out sometime this summer.

Computational Methods and GIS Applications in Social Sciences (3 Edition), Fahui Wang, Lingbo Liu, 2023, CRC Press, Boca Raton

KNIME Lab Manual for Computational Methods and GIS Applications in Social Sciences, Lingbo Liu, Fahui Wang, 2023, CRC Press, Boca Raton



# Dr. Yang speaks at international forum of Spatial Data Intelligence Conference

Date: April 13-15, 2023

Location: Nanchang, China

A key topic to be discussed at the conference is how spatial computing can be used to integrate the virtual and real world. The International Forum was conducted on April 14th from 10:45-12:15PM, EST, focused on urban intelligence, space-time innovation, digital twins, and spatial search. The aim of the forum is to provide scholars from around the world with a platform for academic exchange and to promote subject development. The forum featured presentations from several experts from Singapore, Denmark, and the U.S., Chaowei Phil Yang, our center director, delivered a speech on “Utilizing spatiotemporal innovation in a digital twin’s fashion to address global pressing challenges”.

**SpatialDI 2023**  
第四届中国空间数据智能学术会议  
空间计算赋能虚实世界融通  
中国·南昌 2023年4月13-15日

4月14日 10:45-12:15  
**海外论坛**

**论坛简介**  
城市智能、时空创新、数字孪生、空间搜索等理论和技术正在蓬勃发展，海外论坛旨在给海内外学者提供一个思想碰撞和学术交流的平台，推进学术创新，促进学科发展。本论坛拟讨论这些领域的一些研究进展。

**论坛主席**

- 杨彬 华东师范大学 讲座教授
- 胡吉林 奥尔堡大学 副教授

**论坛报告**

- 报告题目: Deep Disruption-robust Urban Intelligence  
**Yanjie Fu**  
University of Central Florida, Assistant Professor
- 报告题目: Utilizing Spatiotemporal Innovation in a Digital Twins Fashion to Address Global Pressing Challenges  
**Chaowei Phil Yang**  
George Mason University, Professor
- 报告题目: What about People in Urban Digital Twin?  
**叶信岳**  
德州农工大学 教授
- 报告题目: 基于样例的空间搜索算法及系统  
**骆思强**  
新加坡南洋理工大学 助理教授

主办单位: ACM SIGSPATIAL中国分会 ACM SIGMOD中国分会  
承办单位: 东南科技大学