

Half-day Workshop at NARSC 2020

Spatial Data Analysis for Social Sciences: Data, Technology and Applications

10:00AM- 1:00PM, Monday, Nov 9, 2020 (US Central Time)

Co- sponsored by
Geo-computation Center for Social Sciences, Wuhan University
China Data Institute

Instructors:

Dr. Shuming Bao, China Data Institute
Dr. Tao Hu, Center for Geographical Analysis, Harvard University
Dr. Yuanzhen Shao, Geo-computation Center for Social Sciences, Wuhan University

This workshop is designed to introduce government and big data sources, methodology and tools for spatial social sciences, which will include (1) demographic and economic data, social media data, mobility data, remote sensed data, cellphone data, and Covid-19 data sponsored by the China Data Lab projects at Harvard; (2) the workflow-based data analysis for efficient spatial data integration and analysis with Knime, an open source tool for workflow data analysis; (3) reproducible, replicable and expandable data case studies based on some selected publications.

Objectives

This workshop is designed to introduce some new data and tools for reproducible, replicable and expandable data analysis with a focus on spatial social sciences.

Learning Outcomes

Participants will learn the available data sources and tools for spatial data analysis, as well as their applications for spatial studies.

Topics: (3 hours)

Introduction to Government and Big Data Sources (45 min)

Introduction to Workflow-based Data Analysis (45 min)

Reproducible, Replicable and Expandable Spatial Data Case Studies (45 min)

Highlights include:

- Learning government and big data sources for spatial social sciences
- Effectively access and deliver spatial information
- Conduct workflow-based spatial data analysis

- Data case studies for spatial studies based on selected publications

Audience: Anyone who are interested in learning the essentials of workflow-based spatial data analysis

Registration Fee: Free