RESEARCH SEMINAR

DEPARTMENT OF GEOGRAPHY AND RESOURCE MANAGEMENT
THE CHINESE UNIVERSITY OF HONG KONG

Lessons learned from the COVID-19 pandemic using geospatial big data

5 Jan 2023 (Thurs)
11:15 am–12:45 pm (UTC+8)
ZOOM ID: 924 0168 0034
ZOOM Passcode: 891568

The COVID-19 pandemic has led to many health, economic, and social challenges. Its consequences are multi-dimensional (e.g., human interactions, place connectivity, urban structures, mental signals, and spatial networks). Fortunately, the growing availability of a massive number of digital traces from various sources has largely facilitated the establishment of comprehensive COVID-19 impact narratives from a data-driven perspective. In this presentation, I aim to present and summarize the lessons learned from the COVID-19 pandemic using various big geospatial data sources under data-driven evaluation frameworks. This presentation is expected to promote geospatial big data, data-driven analytical paradigms, and their usages towards social good.

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Xiao Huang is an Assistant Professor in the Department of Geosciences at the University of Arkansas. His research primarily focuses on urban informatics, human-environment interaction, human mobility and network sciences, disaster mitigation and resilience, and geo-artificial intelligence (GeoAI). He has authored more than 110 journal articles in the past two years, with many of them being the top 1% cited articles in the fields of Social Sciences and Geosciences according to the Web of Science. He serves as an Associated Editor for Computational Urban Science and sits on the Editorial Board for eight journals across various disciplines.

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