LSGI Talk Series: Emerging Topics in Geospatial and Urban Science

Addressing the Uncertain Geographic Context Problem by Accurately Delineating Environmental Context in Space-time and Assessing Individual Exposure with GIS and GPS

Date: 30 July 2021 (Friday)

Time: 9:30am - 10:30am

Venue: Online

Language: English

Speaker:

Dr. Jue WANG

Assistant Professor
University of Toronto

Bio:

Jue Wang is a health geographer and spatial analyst. He is currently an Assistant Professor at the University of Toronto. He received a PhD degree from the University of Illinois Urbana-Champaign. Wang's research interests involve health geography, human mobility, GIScience, big data, and spatial analysis. His recent research has included exploration of methodological issues in environmental health studies (e.g., uncertain geographic context problem and spatial non-stationarity), development of an unified analytical framework for environmental context profiling and individual exposure assessment, and examination of adult participation in high-risk drug use and of environmental influences on physical activity. He has also helped advance the state of spatial analysis and optimization literature through his work on hexagon-based adaptive crystal-growth Voronoi diagrams based on weighted planes for service area delimitation.

Abstract:

Negative environmental exposures (such as air pollution, noise, and unhealthy food environment) can lead to different unhealthy outcomes and behaviors. According to the World Health Organization, about 22% of the global burden of disease is due to the environment. Thus, understanding the environmental effects on health is an important issue that can help develop effective policies to improve public health. This talk will explore how geography and GIS can help us understand the environmental health issue from a spatial perspective. It will introduce the background of environmental health as well as the current research gaps in the field. To address these gaps, one activity space method and an analysis framework by integrating advanced GIS techniques will be discussed.

Deadline for registration: 12:00noon, 29 July 2021 (Thu)
All are welcome. To register, please click here for the details.
Registrants will receive the online talk information one day before it starts.
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