

DEVELOPMENT OF SPATIALLY EXPLICIT AI MODELS

Speaker

Prof. Song GAO

University of Wisconsin, Madison



Abstract

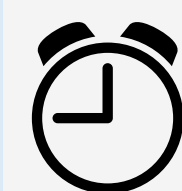
Geospatial artificial intelligence (GeoAI), an interdisciplinary field, merges geographic knowledge with AI techniques to address significant scientific and engineering challenges in human-environmental systems. It focuses on enhancing machines' spatial intelligence to improve dynamic perception, intelligent reasoning, and knowledge discovery of geographic phenomena. This presentation will introduce the historical roots of GeoAI, spatially explicit AI models and recent innovative GeoAI research and applications in mobility and privacy protection.

Biography

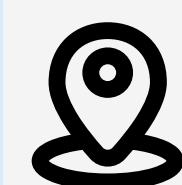
Dr. Song Gao is an Associate Professor in Geographic Information Science at the University of Wisconsin-Madison, where he leads the Geospatial Data Science Lab. His main research interests include GeoAI and Human Mobility. He is the (co-)author of over 100 peer-reviewed research articles, published in prominent journals such as PNAS, IJGIS, and Annals of AAG, with 6800+ Google Scholar citations. He is the PI of multiple research grants from the National Science Foundation, Wisconsin Alumni Research Foundation, Microsoft AI for Earth, and industry partners. He currently serves as the Associate Editor of IJGIS and on the editorial boards for several international journals in GIS. Dr. Gao is the current Vice Chair of the AAG Specialty Group in GIS, the Communications Director of UCGIS, and the BOD Chair of CPGIS. He was the recipient of the Waldo Tobler Young Researcher Award in GIScience, UCGIS Early/Mid-Career Research Award, AAG Spatial Analysis & Modeling Emerging Scholar Award, and among the Web of Science Top 1% global highly cited researchers list of 2022.



14 June 2023
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11:00am to 12:00noon



**Civil Engineering
Conference Room
Room 3574 (Lift 27/28)
HKUST**

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