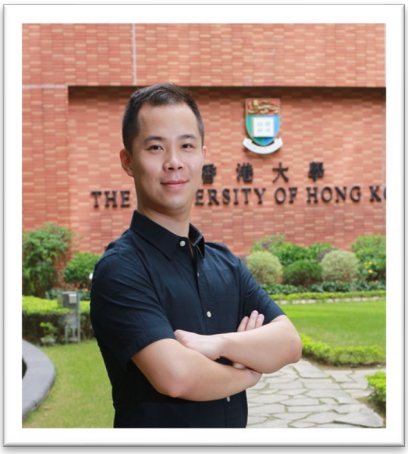
RESEARCH SEMINAR

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

From Pixels to Mesh: A Glimpse into Modern 2D and 3D GeoAI

28 Sep 2023 (Thur)
4:30 – 6:00 pm (UTC+8)
Rm 221, Chen Kou Bun Building, CUHK

The integration of Artificial Intelligence (AI) with Geospatial Analysis offers transformative possibilities for understanding and interpreting spatial data. This talk aims to explore the interdisciplinary realm of GeoAI, with an emphasis on both 2D and 3D Geospatial Analysis. In the first part, we delve into the foundations of Geospatial Analysis and how AI, particularly neural networks, augment these capabilities. The second part focuses on 2D Geospatial Analysis, exploring technologies like remote sensing and street view. Through a survey of recent research examples, we will discuss various practical applications in areas such as environmental monitoring and urban planning. The final segment advances to the realm of 3D Geospatial Analysis, examining innovative techniques like Scan to Building Information Modeling (BIM) and City Information Modeling (CIM), as well as photogrammetry.



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Dr. Jun MA is an Assistant Professor in Urban Planning and Design at the University of Hong Kong and Associate Director of the Master of Urban Analytics program. Specializing in Urban Analytics, his research spans Urban Environment, Urban Sensing, and various Artificial Intelligence techniques, covering topics like air quality, remote sensing, and generative AI. Recognized for his contributions, he was named among the Global Top 50 Chinese Young Scholars in AI+X by Baidu in 2022.

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