Reimagining Cities in the AI Era: A Data-Driven, Sustainable Blueprint for the Information Revolution

19 September 2024 (Thu)
4:30 – 6:00 pm (UTC+8)
Rm 221, Chen Kou Ben Building, CUHK

From the Garden Cities of To-morrow to the Radiant City and Athens Charter, our urban concepts of the past were shaped by the Second Industrial Revolution, aiming to address the health impacts of pollution and overcrowding in industrial cities. A century later, as we confront the information and AI revolution, the question arises: what should the city diagram of the future look like?

This talk draws on our series of research into human travel behaviors, robotaxis, and X-minute cities to propose a future city diagram that prioritizes human well-being—encompassing both physical and mental health. Central to this vision is the reimagining of urban spatial structures and the strategic placement of Points of Interest (POIs), informed by data and computational science. By rethinking land use, spatial layouts, and traffic organization, we can design cities that are friendly, efficient, and, above all, sustainable.

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Prof. Yang Yue is a professor of urban informatics at Shenzhen University, where she also directs the Shenzhen Key Laboratory of Spatial Smart Sensing and Services. Her research focuses on the nexus of urban big data, GeoAI, and social sustainability. She is an associate editor of Computers, Environment and Urban Systems, vice-chair of the ACM SIGSPATIAL China Chapter, and co-chair of the Special Committee on Social & Remote Sensing for Computational Social Science. She received an outstanding teaching award from Guangdong Province (2022) and was recognized as one of the top 20 female innovators by the Chinese Society for Geodesy, Phxotogrammetry, and Cartography (2023).

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