RESEARCH SEMINAR

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

Integration of Non-motorized Modes and Urban Transit: Determinants and Assessment on the Catchment Environment

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Compared with other travel modes, urban transit has obvious advantages such as rapidness, safety, low-carbon emission, and large carrying capacity. At the same time, it can effectively promote land value capture and urban expansion. Against the background of rapid development of urban transit in China, it is particularly necessary to study the combination of multiple travel modes with urban transit. Generally, non-motorized traffic modes such as walking and cycling are the major feeder modes to access urban transit. The integration of non-motorized traffic modes and urban transit is also an effective means to alleviate traffic congestion and a practical way to enhance social, economic and cultural values of a city. In this seminar, two relevant studies will be presented. The first empirical study, taking Shenzhen metro system as an example, explored the determinants of built environment, individual attitude, and personal attributes that affect the feeder modes (such as dockless bikeshare) to access urban transit. In the second study, taking the commercially-run metro stations in Dalian as an example, a combined method of subjective evaluation based on satisfaction survey and objective evaluation based on walking index was applied to collectively assess the walking environment of urban transit catchment area.

Dr Yuanyuan Guo
Department of Urban & Rural Planning
Tianjin University

Dr Guo is an Associate Professor in the Department of Urban & Rural Planning at Tianjin University. He obtained his PhD in the Department of Geography and Resource Management at The Chinese University of Hong Kong in 2020. His doctoral research investigated the determinants and mechanism of the integration between dockless bikeshare and metro. Dr Guo's current research focuses on shared mobility, urban transport planning and policy, and urban land use. He has published in leading SSCI/SCI journals such as *Transportation Research Part A*, *Transportation Research Part D*, *Sustainable Cities and Society*, and *Journal of Cleaner Production*. His work has also been published in approximately 20 Chinese journals.

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