

RESEARCH SEMINAR

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

Spatial disparity and structural inequality in disability patterns across Tianjin municipality: a multiple deprivation perspective

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Reducing health inequality has been well recognized as a global challenge (e.g. SDGs) in both developed and developing countries. There have been growing concerns about the disability related inequality in the current process of urbanisation and the development of healthy China. This study aims to develop and validate a conceptual framework for analysing the structural inequality and spatial disparity of disability-related deprivation. To achieve this goal, an Index of Disability-Related Multiple Deprivation (IDMD) based on six specific domains, including employment, education, marital status, health, services and barrier-free environments, is proposed. The IDMD was calculated at the sub-district level within the Tianjin municipality using aggregated registration information from the Tianjin Disability Database in 2020. The empirical study has generated three findings such as significant urban-rural disparity across the municipality, the key socio-economic and health factors of structural inequalities. These findings reflect the complexity of structural factors affecting disability-related deprivation at the municipality scale. This study points to the need for informed, targeted welfare facilities planning and management strategies to improve spatial equity and social justice for disabled people.

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Jianquan's main research interests include urban growth, geographical mobility, spatial accessibility, inequality, and sustainable urbanisation, using GIS and big data approaches. His recent studies focus on analysing and modelling how physical and built-environment and digital technologies impacts on public health and well-being at a variety of scales (from nation down to street) in Chinese and British cities, which aim to generate data driven evidence and frameworks for spatial planning and governance. The example recent topics are urban physical exercise infrastructure and computational healthy street using big data, spatial statistics, virtual reality and video analytics.



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