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Centre for Transportation Research of Department of Civil and Environmental Engineering

Electrification of Private Cars in Hong Kong: EV Adoption, Charger Accessibility, and the Spatial Planning of Charging Infrastructure

by

Associate Professor Sylvia He

Department of Geography and Resource Management
The Chinese University of Hong Kong

Host: A/Prof Raymond Ong, Associate Head (Research) of CEE

Date: 26 April 2023, Wednesday

Time: 4 pm – 5 pm

Venue: EA-06-02

National University of Singapore
College of Design and Engineering
9 Engineering Drive 1
Singapore 117575



Scan code to
register

*****Seats are limited. Please register early. All are welcome and admission is free*****

Abstract

Electrification of the transport sector is an important strategy to achieve carbon neutrality. Over the past few years, we have witnessed the momentum of transitioning from ICE cars to electric cars in different parts of the world, however, cities are facing various challenges and obstacles during the electrification process. In this seminar, one of the densest cities in the world – Hong Kong – will be presented. First, we will examine key determinants of EV adoption, based on the findings from a questionnaire survey in Hong Kong and Denmark. Among these critical factors is charger accessibility, which we will differentiate by objective, perceived, and prospective measures. Then we will develop a methodology framework and a location-allocation model to incorporate consumer preferences and land use constraints into the spatial planning of public EV charging infrastructure. Lastly, some work in progress using new and emerging data will be briefed at the end.

Speaker's Biography



Sylvia He is an associate professor in the Department of Geography and Resource Management at the Chinese University of Hong Kong (CUHK). Her research interests include urban planning, transport planning and policy, travel behavior, transit-oriented development, electric vehicle, urban analytics, urban economics, new towns, and shrinking cities. She serves the Editorial Boards of several flagship journals in urban planning and transport, including the Journal of the American Planning Association (JAPA), Town Planning Review, Transportation Research Part D: Transport and Environment, and Journal of Transport Geography. She is also Associate Editor of Travel Behaviour and Society and Asian Transport Studies. She is an elected Fellow of the Regional Studies Association (RSA), Secretary and Board Member of the World Society for Transport and Land Use Research (WSTLUR) and the Hong Kong Society for Transportation Studies (HKSTS), and Board Member of the International Association for China Planning (IACP)

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Map of Seminar Room EA-06-02, 9 Engineering Drive 1, Singapore 117575

Seminar Room 2 (EA-06-02) is on floor 6.

