



Join Our SEMINAR



Guest Speaker

Dr. Nur Sabahiah Binti Abdul Sukor

WEDNESDAY, 18 SEPTEMBER 2024

13.30 - 14.30 pm

ILWA-SR 24 (ILWA-U1/07)

Dr. Nur Sabahiah Binti Abdul Sukor is an Associate Professor at the School of Civil Engineering, Universiti Sains Malaysia (USM). She received her PhD degree in transportation engineering from Kyoto University in 2011. Dr. Nur research focuses on simulating scenarios and analyzing the safety and accessibility of vulnerable road users. Her work aims to enhance public transport systems and promote active transportation modes, such as cycling and walking, within urban planning frameworks.

Elucidating the relationship between cyclists' risk perception with speeding and maneuvering behaviors incorporating lateral passing distance information

This presentation reports on a research study employing a multifaceted approach to explore cyclists' risk perceptions and behaviors using a cycling simulator. The study includes the development of a physical cycling simulator that measures risk perception, speeding, maneuvering, and vibrations during overtaking scenarios, enhanced by augmented and virtual reality to replicate real-world conditions, including lateral passing distances. Additionally, causal structural modeling is used to analyze the relationships between perceived risks, behaviors, and passing distances. Preliminary findings suggest a complex relationship between perceived risk and actual behaviors, with cyclists experiencing heightened anxiety and defensive behaviors when overtaken by vehicles that fail to maintain safe lateral distances. The study will quantify how passing distances affect cyclists' safety perceptions and actions, while also highlighting the influence of road design on cyclists' experiences.



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