



KSCSTE - National Transportation Planning and Research Centre (NATPAC), an institution of Kerala State Council for Science, Technology and Environment (KSCSTE) is a premier R & D institution in the country which works on multi – modal system of transportation covering road, rail, water, air etc.

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TransPedia Research Talk # 33

Risk-averse Approaches for Evacuation Planning on Road Networks

ABOUT THE TALK SERIES

NATPAC has been conducting a series of technical talks 'TransTech Talk Series', since February 2023, where industry experts and eminent researchers come together to discuss the latest advancements, challenges, and innovations in the field of transportation.

TransPedia Research Talk Series is yet another unprecedented and distinctive endeavor from NATPAC, envisioned to promote research for shared benefits, by disseminating knowledge on diverse topics from cutting-edge technologies to sustainable solutions. Desirably this also brings out a platform for young researchers across the globe to connect and interact to better shape the future of research and development in transportation.

ABOUT THE TALK # 33

Evacuation planning on road networks has traditionally focused on traffic demand modelling, routing, and shelter allocation, often overlooking the vulnerability of the transport infrastructure to disasters themselves. This talk introduces a risk-averse perspective to evacuation planning by explicitly incorporating disaster susceptibility into decision-making. It presents methodologies for optimally distributing evacuees to safer shelters and routing them through more reliable paths, while also addressing network preparedness through capacity enhancement strategies.

Attendees

Transportation Professionals, Engineers, Urban Planners, Researchers, Industry Experts, Policymakers, Students, and anyone enthusiastic about the future of transportation.

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Dr. Nitheesh K earned his PhD in transportation systems engineering from the Indian Institute of Technology Palakkad in 2025 under the supervision of Prof. B K Bhavathrathan.

His research interests include transportation network planning and operations, disaster-resilient mobility systems, evacuation planning, and optimization-based methodologies for transportation problems.

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