



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 Series

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 # 18

Influence of Braking Manoeuvres on the Reliability of Bituminous Pavements

This talk explores an approach for accounting the loads transferred from tyres to pavements during reliability estimation for a two-axle truck under different loading conditions. The methodology adopted will also be discussed, which includes the simulation of load transfer during braking using vehicle dynamics software, and the reliability estimation using Response Surface Methodology and Monte Carlo Simulations. The developed framework is adaptable to scenarios with greater load transfer variability, such as multi-axle vehicles traversing horizontal and vertical curve road sections.

ATTENDEES

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

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Natpac Trivandrum

ABOUT THE SPEAKER

Dr. Donia Savio

Senior Research Fellow
Indian Institute of Technology
Madras



Dr. Donia Savio completed her PhD from Indian Institute of Technology Madras in 2023 under the supervision of Prof. (Dr.) J. Murali Krishnan, on the topic "Influence of Axle Load Distributions and Vehicle Manoeuvres on the Reliability of Bituminous Pavements". She is currently involved in an Indian army funded project focussing on enhancing the runway pavement design methodologies used in Indian military airport infrastructure.

29.01.2025, 11:00 AM IST

JOIN USING THE LINK:

<https://tinyurl.com/TransPedia-18>



Don't miss out on this opportunity to delve into the realm of transportation innovation. Join us for insightful conversations, connect with fellow industry professionals, and be part of shaping the future of transportation.