



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 #36

Study of Reaction Time under Different Auditory Conditions and its Effect on Traffic Safety using the Vienna Testing System and Unmanned Aerial Vehicles Data

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 #36

The talk explores the critical impact of auditory distractions, such as phone calls and music, on driver reaction times using the Vienna Testing System. By integrating Unmanned Aerial Vehicle data, the present study analyzed Time-to-Collision to accurately evaluate real-world crash risks on the road. Further, it quantifies the exact probability of increased accidents resulting from these delayed cognitive responses. Finally, the talk presents a newly developed predictive model that demonstrates how reaction times fluctuate over time, offering data-driven insights for improving overall traffic safety.

Attendees

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

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Dr. Rajesh Chouhan

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Dr. Rajesh completed his Ph.D titled "Applications of Unmanned Aerial Vehicle Data in Traffic Operations and Safety Under Mixed Traffic Conditions" from SVNIT Surat in 2025 under the guidance of Dr. Ashish Dhamaniya (SVNIT) and Prof. Constantinos Antoniou (TU Munich, Germany). His research areas include Applications of Big Data Analytics, AI-ML, UAV Data, in Traffic Operations and Safety Innovations.

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<https://tinyurl.com/Transpedia36>



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.