



15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)

18, 19, and 20 December 2024



Mode: O-Oral and P-Poster

Paper ID	Title	O/P
4	Performance Evaluation of High Recycle Asphalt Pavement content: A Comprehensive Analysis.	O
7	Modelling Mode Choice Behavior Between City Bus Services and Shared Motorized Three-Wheeler Services in Hyderabad City	P
9	Influence of Circulating Fluid Temperature and Snow Thickness on Snow Melting Performance and Energy Assessment of Hydronic Pavement System	O
10	Investigation of the travel mode choice for work trip in Class I cities: a case study of Imphal	O
11	Spatial accessibility and User travel behavior influencing utilization of public healthcare facilities in Indian rural district. A case study of Hapur District	O
14	Evaluation of Factors Affecting the Service Quality of Mobility Hubs in Developing Economies	P
16	Uncovering the Implicit Relationships Between Key Risk factors and Speeding Behavior Among Long-Haul Truck Drivers Circulating in India: Application of XG Boost and Shapley Additive explanations Technique	P
17	Cost Analysis for Flexible Pavement using Reclaimed Asphalt Pavement (RAP) for base/subbase	P
19	Capacity and Level of Service Estimation of a Roundabout: A Case Study in Silchar	O
20	Utilization of High RAP Content in Hot Mix Design	O
21	Qualitative Reliability Index based Examination of Passenger Walkway Facilities of Hybrid BRT System	O
22	Pedestrian Safety Perceptions at the Crosswalks of Unsignalized Intersections: A case of Hyderabad city, India	P
23	Experimental Studies on UV aging of Asphalt using Rheological and Image Analysis	O
24	A Cognitive Study on Community Perception of Speed Bumps at Urban Dwellings	O
25	Strategies for Improving Performance of BRTS for Sustainable Mobility in Indian Cities	P



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Paper ID	Title	O/P
27	Influence of Incineration Biomedical Waste Ash on the Characterization of Cement-Treated Road Bases	P
28	Analytical Hierarchy Process for Predicting Customer's Patronage of Inland Water Transport Towards a Sustainable Urban City	O
29	Distribution of gaps in multi-lane orderly and disorderly traffic streams	O
30	Policies to target optimum transport sustainability index of National Capital Territory of Delhi	O
32	Investigation of Volumetric Properties of Recycled Mixtures with Waste Engine oil as Rejuvenator: Emphasis on Cost	O
33	Effect of RAP Fractionation on Stiffness Behavior of Cold Asphalt Mix	P
37	Study On Degradation of Natural Coir Geotextile and Its Performance Assessment Using Coating Materials	O
39	Economic Sustainability to Promote Non-Motorized Transport Infrastructure (NMT) Infrastructure – Case of Chennai City, India	O
40	Development of mode choice model of parkers in Alappuzha City	O
41	Understanding Public Transport Usage Characteristics among college and University student commuters due to COVID-19: An Indian case study	O
42	Application of Eco-friendly Submerged Vanes for Developing Inland Water Transport	O
43	Examining the influence of Pedestrian Perception and Supporting Infrastructure on Walking Tendency	P
44	A Comprehensive Review of Image Segmentation Architectures for Autonomous Navigation and Intelligent Transportation	P
45	Estimation of Side Friction Score and Its influence on Average Traffic Stream Speed on Four-Lane Urban Roads	O
46	Comparative Analysis of Roadway Capacity during Peak and Off-peak Period in Hilly Region of Uttarakhand	O
47	Assessment of Strength and Long-Term Durability Properties of Stabilized Granular Lateritic Soil for Use in Base and Sub-Base layer of Pavement	P
48	Development of Flow Number Specification for Rutting of Bituminous Mixes	O
49	Evaluating Pedestrian Infrastructure: A Case Study of Nagpur City	O



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Paper ID	Title	O/P
50	Classifying turning movements using naturalistic driving study data	O
51	Rutting Resistance Evaluation of SBS-Modified and Highly Modified Asphalt Binders	O
52	Feasibility of Mustard Oil (MO) in Rejuvenating Aged Polymer Modified Binder (PMB)	O
53	A Comprehensive Review of IoT-Based Smart Parking Systems	P
54	Mobility as a service (MaaS) and its potential to revolutionize sustainable transport	O
58	A Comparative Study of trip generation using traditional Multilinear Regression and Machine learning technique for Bhopal city	P
59	Impact of Mobile Use and Travel Behavior on Perceived Crash Risk Among Two-Wheeler Riders	P
60	Effect of Waste Transformer Oil (WTO) and Waste Engine Oil (WEO) on the performance of 100% RAP mixes at reduced mixing temperatures	P
64	Evaluation of Rheological Master Curve Models for Rice Husk Ash-Modified Asphalt: Goodness of Fit Approach	P
65	Factors Affecting the Adaption of Digital Freight Forwarding of MSME in New Delhi - Case Study of Gandhinagar Wholesale Market	O
66	Analyzing Geometric Effects of Curves on Trajectory Profiles for Through and Passing Maneuvers on Four-Lane Divided Highways	O
68	A study on comparative analysis of walkability indices in the Indian Context	O
69	A stochastic delay modelling in a multi-channel queue with random arrivals and departures	O
70	Study on Behavior of Social Groups in Pedestrian Flow at Staircase of Foot-Over Bridge of a Railway Station	O
71	Developing Base Saturation Flow Model and Adjustment Factors for Signalized Intersections under Non-Lane based Mixed Traffic Conditions	P
72	Evaluating Synthetic and Real-World Driving Cycle on Various Mechanical Parameters through Simulation	O
73	A novel approach to study the dispersion characteristics of recycled waste plastic modified bitumen	O



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Paper ID	Title	O/P
74	Commute Distance and Residential Characteristics: Weathering the Storm	O
75	Analysis of curve based head-on crashes using a decision tree-based approach on rural mountainous highways in India.	O
76	Machine Learning-Enhanced Soil Stabilization Using Multiwalled Carbon Nanotubes and Fly Ash for Road Construction	O
77	Prediction of Deflection Bowl Parameters of Asphalt Pavements Using Machine Learning Techniques	P
78	Comparison of structural performance of low volume roads in Kerala using falling weight deflectometer	P
79	Effect of pedestrian crossings on traffic flow parameters vat mid-block sections	P
80	Enhancing Kochi Water Metro Ridership: A Study of User Satisfaction Indicators and Perceptions	O
81	Fatigue Life and Durability Analysis of Waste Glass-Enhanced Cold Bitumen Emulsion Mixtures	O
82	Assessment of noise pollution in urban residential complexes and awareness of potential health risks among residents in noise-sensitive areas	O
83	Evaluating the Impact of Hydrophilic Nano clay at Binder and Mastic Scale: A Comparative Study	O
84	Review Article on the Effect of Wireless Charging System for EVs on Pavement	P
85	Analysing Network Topology of Bus Network in Varanasi Using Self-Organizing Maps	O
87	Framework for Utilization of Discarded Coir Fibres for Pavement Applications	O
88	Combine Effect of Sulphur-Chitin on Aging Susceptibility of Asphalt Binder	P
89	Development of Vehicle Conflict Prediction Model Using Surrogate Safety Measures	P
90	Influence of GGBFS and Processed Coarse RAP in Pavement Quality Concrete	P
91	Evaluating Safety of Powered Two-Wheelers During Overtaking in Urban Mixed and Weak-Lane-Disciplined Traffic: A Proactive Safety Approach	O
92	Intersection Safety: Investigating Speed Variation and RTCs Using Pervasive Traffic Data	P
93	Evaluating Speed Limits for Enhanced Road Safety: A Study of Inter-Urban Roads in India	O



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Paper ID	Title	O/P
94	Speed and Acceleration Characteristics of E-rickshaw on Urban Roads in India	P
95	Study on pavement response considering actual tire contact area on flexible pavements	O
96	Advancing public transport accessibility assessment: a case Study of Hubli – Dharwad	O
97	Calibrating Volume Delay Functions for Urban Roads in Delhi, India	P
98	Development of Commuter Mode Choice Model Using Traditional and Latent Class Approaches	P
99	Quantification of Tire-Pavement Interaction Noise Using Frequency Analysis	O
100	Analysis of Self-reported Driving Behavior Pattern in the Indian Context	P
102	Optimization of Factors Influencing Performance Properties of Bitumen Stabilized Materials using Design of Experiment	O
103	Physical and rheological properties of high-float emulsified asphalt residues for chip seal applications	O
105	Transit Operational Assessment with Modified Level of Service based Measures	P
106	Identifying Critical Safety Issues on 4-Lane National Highways in India Using Reactive and Proactive Methods: A Case Study from NH30 Mohania to Bakhtiyarpur.	P
109	Assessing Safety Perceptions at Roundabouts in India: Using Multiple Correspondence Analysis and Regression Analysis	P
110	Travel mode shift analysis of commuters in a work centre campus to impending light metro transport facility	O
111	Impacts of Design Variables on Pavement Design: Sensitivity Analysis for Flexible Pavement	P
113	Determinants of Risky Riding Behaviours of Cyclists: A Literature Review	O
114	Distribution of Vehicles Lateral Placement on Horizontal Curves of Two-way Undivided Roads	O
117	Driver Gaze Zone Estimation using Deep Neural Network	O
118	Prioritizing Improvement of Service Attributes of Water Metro using Impact Asymmetry Analysis	O
119	Who will adopt electric bicycles in India and why? Profiling potential users based on their sociodemographic and sociopsychological characteristics	O



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120	Assessing women commuters' safety and security and the prevalence of harassment in public transportation	O
121	Microscopic Calibration of VISSIM Car-following parameters for Disorderly Traffic Stream	O
123	SHIV-NATRAJ Dataset: Spatiotemporal Heterogeneous Integrated Vehicular Naturalistic Aerial Trajectory Dataset	O
124	Machine Learning-Based Prediction of Stream Speed on Urban Roads: Understanding the Role of Roadside Frictions	O
126	Assessing the distraction potential of driver-passenger conversations: Insights from field operation tests	P
128	Unveiling Gender Dynamics in Perception towards Regional Transit	O
129	Understanding the driver performance for lower levels of ADAS using kinematic variables	O
130	Estimation of Carbon Footprint using Life Cycle Assessment for Flexible Pavement: Emphasis on User Stage	O
131	Assessing Intermediate Temperature Cracking Performance of Chitin Treated Asphalt	O
133	Developing of Walkability Index for University Green Campus for the Evaluation of Existing Sustainable Pedestrian Walkability Infrastructure at PEC Campus in Chandigarh City for the Achieving of SDG-2030 Targets	P
134	Effect of Mineral-Stabilized Black Cotton Soil Subgrade on Flexible Pavement Analysis and Design	P
136	Identifying Vulnerable Time Windows to Facilitate Real-Time Warning Systems using Surrogate Safety Analysis	O
137	Pedestrian Infrastructure and Accessibility in Urban Environments: An Analysis of Walkability, Connectivity, and Spatial Configuration in Kochi	P
138	Identification and Prioritization of Accident Blackspots in Surat, India using Geographical Information Systems	P
139	Effects of Transit Quality of Service Satisfaction and Demographics of Users on Perceived Accessibility	P
140	A Study on the Variability of Viscoelastic Response of Unmodified Asphalt Binder	P
141	Evaluation of Time Headway Maintenance of Bus Drivers and its Impact on Road Crashes Using ADAS Alerts	P
142	Development of Conflicting Flow Model for Unsignalised Intersections: Tier II Cities of India	P
143	Alternative Fuel Vehicles' Feasibility in Developing Countries: Current Challenges and Future Scope	P



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144	Direct Demand Models for Station-level Metro Ridership: An Application to Analysis of Metro Ridership in Bengaluru, India	O
145	Assessment of Child Pedestrian Safety in School Zones: An UAV Driven Approach	O
146	A Framework for Estimating Dynamic Critical Threshold and Conflict Probability at Adaptive Traffic Signal Control Enabled Intersection Using Microsimulation Technique	O
147	Relationship Between Speed Limits and Safety: Indian Driver's Perception	P
148	Assessment of Geometric Enhancements at Intersections on National Highway Using Microsimulation Approach	P
150	Assessment of Dispersion and Physical Characteristics of Asphalt Binders Enhanced with Graphene	O
151	Evaluating the Impact of Plain and Porous Concrete Coverings on Electromagnetic Induction Generated by a Basic Coil Setup	P
152	Understanding Focus and Attention of Drivers by his Head Pose Analysis using Artificial Intelligence	O
153	Development of Driver Safety Index Leveraging AI-Driven DMS Inattention Alerts	P
154	A Comprehensive Review of Studies on Driving Behaviour Characteristics of Drivers Conducted Using Driving Simulator	P
155	Operational Impact of Variable Speed Limit Concept Using Microsimulation Technique: A Case Study of Ahmedabad-Vadodara Expressway	P
156	Analysis of Red-Light Running with Respect to the Signal Systems and the Prospects of Safety Enforcement	P
157	Effect of Gender and Fatigue on Alertness of Young Drivers	P
158	Effects of Building Demolition Waste Materials as Filler on Performance of Mastic and Asphalt Mix	O
160	Improving First Mile Connectivity of Multimodal Transport System for Indian Cities using Multinomial logit model	P
161	Optimizing Hydrological and Mechanical Properties of Pervious Concrete: A Statistical Approach	P
162	Performance assessment of asphalt binder enhanced with plastic pyrolytic char and waste engine oil	P
163	Influence of RAP binder and Waste Oil on the performance of Conventional binder containing Warm Mix Additives	P



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164	Safe Speed Limits for National Highways in India	O
165	Detection of accident black spots for Indian traffic conditions using MoRTH based Sliding Window Method	P
166	A Cost-effective Smartphone Application for Enhancing Road Safety through Speed Monitoring	O
167	Estimation of Mode-Wise Delay at a Signalized Intersection in Hyderabad Using PTV Vissim	O
168	Investigation of the Impact of Policy Awareness, Technical Knowledge, and Environmental Consciousness on EV Adoption: Evidence from Four Indian Cities	O
169	Critical Gap Estimation and its Effects on Capacity and Safety at a High-Speed Uncontrolled T – Intersection	O
170	Modelling 3W-delay with Support Vector Mechanism, a machine learning algorithm, in non-lane disciplinary traffic condition using statistically predominant variables extracted using YOLOv8 algorithm	O
171	Data-Driven Modelling of Real-Time Bus Passenger Alighting through Operational Variables and Neighborhood Effects	O
172	Modeling Lateral Placements in Heterogeneous Non-Lane-Based Traffic using UAV based Vehicular Trajectories	O
173	Delay Measurement and Analysis of Pedestrian Behaviour	P
174	Do Trip Length Models Effectively Account for the Trade- off Between Speed and Cost for Daily Commuters?	O
175	Lateral Safety Analysis of Vehicles in Roundabouts	P
177	Exploring the impact of External Network Accessibility on Metro Interchange Usage: A Case city of Delhi, India	P
178	Fuel Consumption Models to assess the Influence of Air Condition under Indian Traffic Conditions	P
179	Journeying Safely: A Critical Systematic Review of Women's Security in Public Transportation Systems Worldwide	P
180	Enhancing OGFC Performance with Polymer-Modified Binders: Rutting Resistance and Durability Evaluation	O
181	Identification of Driving Behavior through Steering Entropy and In-Vehicle Sensor data analysis	O
182	Road Transport Connectivity in Mixed Land-use Area of Indore City: Special Reference to Peri-urban Development	P
183	Financial Performance based Benchmarking of Metro system in India: Data Development Approach	O



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184	Selection of Diesel Fuel Alternatives for Compression Ignition Engines: A Hybrid Multiple-Criteria Decision-Making Approach	P
186	Performance Evaluation of Bitumen with Waste Oils as Rejuvenator: State of the Art Review	P
187	Detection, Classification, and Trajectory Extraction of Vehicles under Indian Traffic Conditions	O
188	Mapping Research Pattern with Factorial Analysis in Reclaimed Asphalt Pavement (RAP) Aggregate	P
189	Congestion Pricing for Indian Cities: Challenges and Prospects Based on International Experiences	O
190	Development of Spatial Economic Distribution Model to assess the Impact of Wider Economic Benefits (WEBs) from Transport Infrastructure	O
194	A Methodology to Evaluate Safety and Mobility Factors to Develop Complete Streets in Small Towns: A Case Study from Nevada, USA	P
196	MCDM Approach for Rail Alignment Fixation: A Case Study	O
197	Methodological Approach for Identification of Green Freight Corridor Through Regional Freight Demand Assessment: A Case Study of Visakhapatnam Port Region, India	O
198	Effect of Waste Plastic on Moisture Damage Resistance of Warm Mix Asphalt Mixtures	O
199	Analysis of Overtaking Behaviour on Undivided Two-Lane Roads in Hilly Region	P
201	Evaluating Accessibility and Mobility Impacts of Urban Transport Modes: A Case Study of the Vegas Loop	O
202	Utilization of Municipal Solid Waste Incineration Fly Ash in Modifying Asphalt Binder through the Wet Process: Optimization & Performance Characterization	O
203	Evaluation of Cracking Performance of Bituminous Concrete Mixes Containing High Percentage of RAP Material	O
204	Effect of on-street parking manoeuvre on traffic speed	P
205	A horizontal curve radius extraction methodology: Using naturalistic driving data	O
206	Network-wide traffic incident detection using crowdsourced travel time data	O
207	Traffic flow characteristics of an undivided two-lane road with Inclusive Motorised Two-wheeler lanes: A Case study	O



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208	Temperature Dependent Asphalt Modulus Estimation from Surface Wave-based Nondestructive Evaluation	O
209	Evaluation of Road Safety Condition near School Zone	P
210	Quantifying the Impact of Social Influence and Media Exposure on Adoption of Electric Vehicles	P
211	Road Safety: Accident Prediction Modeling in India & Countries Other than India.	O
212	Distracted Driver Behavior Study of Four Wheelers in Mixed Traffic Conditions	P
213	Transportation Needs and Economic Opportunities of Socio-economically Disadvantaged Populations in the Hospitality and Tourism Industry: A Case Study in Las Vegas, Nevada in the United States	O
214	Hydro-Mechanical and Chemical Interactions of Red Mud in Pavements: Challenges and Opportunities for Circular Economy	O
215	Utilizing Principal Component Analysis to Categorize Recycled Blends with Varying Compositions	P
216	Use of Social Media Data for Sentiment Analysis of Zipper Line	O
217	A Comparative Study on Fatigue Behaviour Analysis through Lane Change Rate association with Road Geometry: Yamuna Expressway and NH - 11	P
218	Quantifying Shippers' Modal Shift to Inland Water Freight Terminals: A Case Study of Varanasi (NW-1)	P
221	Quantification of Dissipation due to Damage of Bituminous Materials	P
223	Local Traffic state estimation using Ego vehicle surrounding awareness	O
224	Performance Evaluation of City Circular Bus Routes of Thiruvananthapuram	O
226	Influence of Sample Preparation Methods on the Linear Viscoelastic Response of Bituminous Mortar in Torsion	O
227	Assessment of sustainability of passenger transport: A case study of Chennai Metropolitan Area	P
228	The challenges associated with the measurement of the Stribeck curve for bituminous binders	P
230	Analyzing Aggregation Bias Due to Demand Though Schedule-based Transit Assignment in Mega-cities	O



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233	Safety Appraisal of Multi-Lane Roundabout under Mixed Traffic using Microsimulation	O
234	Modelling Class-Wise Delay and Approach Queue Length at Signalized Intersections in Mixed Traffic	O
235	Effect of Moisture Conditioning on Rheological Properties of Two-phase Hot Mix Asphalt	O
236	Characterization of Cement-Asphalt Mortar for Ballast less Track of High-Speed Rail	O
237	Assessing the Influence of Curb side Bus Stops and On-Street Parking Along Signalized Corridors	O
238	Which factors affect the sites of potential temporary facility locations for earthquakes? Findings using AHP	O
239	Advanced Pothole Detection Using Smartphone Sensors and Dynamic Time Warping Technique	P
240	Analysis of acceleration data to detect dangerous driving hotspots	P
A1	Utilization of Coral sand in Cement Treated Base -Sustainable Construction	O
A2	Use of Warm Mix Asphalt - Sustainable Construction	O
A3	Urban Mobility Challenges at Hill Regions and Sustainable Solutions- A Case of Two Hill Towns	O
A4	Wireless EV Charging - Unplugging Concerns and Driving towards an EV-Ready India	O
A5	Revolutionizing Tolling & Traffic Management: Insights from the MTHL	O
A6	Quantitative Assessment of Advanced Air Mobility for Mobility Needs of the Future	O
A8	Adaptive Decongestion of Business District using Iterative Process to Address Multiple Stakeholders	O
A9	3M Advance Warning Pavement Markings (AWPM): A Complementary Solution for Transverse Road Applications to Enhance Visibility and Safety for Road Users	O

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A10	A Comparative Study on Marshall Properties and Compaction of Bituminous Mixes (BC-II) with and without Plastic Waste (LDPE) - Dry Process	0
A11	A Construction Quality Monitoring – Production and Laboratory Standards in the Modification Plant	0
A12	An Experience in Execution of Stone Matrix Asphalt (SMA) in India	0
A13	Real-World Vehicle Behaviour Analysis Using GPS based data logger along with IMU sensor: A Cost-Effective Solution for Accurate Data Collection in Mixed Traffic Conditions	0