



# 14<sup>th</sup> International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC)

19, 20, and 21 December 2022



Paper ID	Title
142	Development Of Maintenance Priority Index For Urban Road Network
228	Investigation Of Heavy Acceleration Events From Connected Vehicle Data And Their Associated Causes
235	A Review On Pedestrian Level Of Service For Sidewalks
344	Sustainability Integration Index Of Metro And Buses For Evaluation Of Transport Policies
370	Modeling Of Deflection Basin Parameters Of Asphalt Pavements Using Artificial Neural Networks And Adaptive Neuro-Fuzzy Inference Systems
392	A Two-Dimensional, Multi-Vehicle Anticipation, And Multi-Stimuli Based Latent Class Framework To Model Driver Behaviour In Heterogeneous, Disorderly Traffic Conditions
393	Assessment Of Pedestrian Safety At Urban Uncontrolled Intersections Using Surrogate Safety Measures: A Case Study Of Bhopal City
720	Analysis And Modelling Of Acceleration Behavior On The Horizontal Curves Of Two-Lane Undivided Rural Highways Passing Through Mountainous Terrain
909	Matrix Tailoring Of Ductile Concrete Material With Locally Accessible Sand And High-Volume Flyash
966	Effect Of Lateral Shift Of A Vehicle On Following Vehicles
1199	In-Vehicle Distraction In Novice Driver And Experienced Driver: A Comparative Study
1243	A Review Of Safety And Operational Impacts Of Various Speed Limits
1387	Integrated Approach For Active Transport Infrastructure Planning In City Mobility Plans
1412	Road Safety, Crash Hot-Spot, And Crash Cold-Spot Identification On A Rural National Highway In Maharashtra, India.
1413	A Critical Review On Strategic Decisions For Travel Time Performance Improvement Of Public Transport System
1499	Impact Of Autonomous Vehicles On Capacity Of A Two Lane Highway



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1664	Study On Driver Behaviour At Unsignalized Intersection Using Fuzzy Logic
1767	Modeling Driver Behaviour And Safety At Urban Mid-Block Sections Under Mixed Traffic Conditions
1931	Estimation Of Hydrocarbons And Nitrogenous Emissions From Passenger Cars In Heterogeneous Urban Traffic Conditions
1967	Comparative Study On Gel-Incorporated Flexible Pavement
1976	Quality Assessment Of App-Based Bike Taxi Services By Benchmarking And Numerical Rating Approach: Guwahati
2062	Study On The Relationship Between The Compressive Strength And The Flexural Strength Of Concrete
2063	Trip Generation Based On Land Use Characteristics: A Review Of The Techniques Used In Recent Years
2143	Performance Assessment Of Premix Carpet For Low Volume Roads
2214	Car Parking In Indian Cities: A Review Of The Impediments To Sustainable Mobility
2261	Capacity Analysis And Safety Assessment Of Unsignalized Intersection Using Conflict Technique
2284	Evaluation Of Traffic Characteristics For Suitability Of Pedes-Trian Crossing Facilities And Developing Warrants
2321	Development Of Resilient Modulus Model For The Bituminous Course
2458	Limits To Commute: The Case Of Indian Women
2517	A Machine Learning Based Approach For Smart And Automated Data Collection: Applications In Transportation
2577	Mode Choice Behaviour Of Students Using Structural Equation Modelling
2656	Impact Of The Odd-Even Policy In Delhi On The Mode Shift Of Car, Bus And Metro Commuters
2685	Influence Of Aging On The Temperature Susceptibility Of Bituminous Binders



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2713	Pune Metro: Preference Survey and Analysis For The Modal Split Of Work Trips To Hinjewadi
2752	Effect Of Intersection Conflict Warning System At An Uncontrolled Intersection On Drivers Reaction Time And Speed Reduction Time
2827	A Diffusively Corrected Continuum Model To Account For The Spatial Distribution Of Vehicles In Multi-Class Disordered Traffic Flow
2868	India's Metro Rail Systems: Existing Challenges And Prospects
2932	Forensic Investigations For Failure Of Flexible Pavements : A Case Study
3031	Assessment Of The Impact Of Heavy Commercial Vehicles On The Safety Of Passenger Cars On Multi-Lane Rural Highways
3103	Effect Of Coarse EAF Slag Aggregate On Mechanical And Durability Properties Of Roller Compacted Concrete Pavement
3239	Determination Of Pedestrian Level Of Service (PLOS) Criteria In Urban Areas Of Hilly Regions In Indian Context
3249	Analysis Of Influence Of Time Pressure On Temporal Non-Compliance Behavior Using A Pedestrian Simulator
3278	Effect Of Road Geometry Factors On Vehicle Crashes: A Case Study Of Two-Lane Hilly Terrain
3294	Influence Of Slurry Impregnation Technique Of Recycled Concrete Aggregates On The Roller Compacted Concrete Pavements
3329	2D Curve Analysis Based Development Of Safety Surrogate Measures In Lane-Free Heterogeneous Traffic
3369	A Methodology For Selection Of On-Field Observation Sites For Analysing The Effect Of Site Characteristics On Wrong-Way Movements
3380	A Framework For Estimating Dynamic Critical Threshold For Crossing Conflicts At Unsignalized Intersections
3469	Effect Of Subgrade Stabilization On Pavement Design: Material Optimization& Economic Impacts
3483	Life Cycle Cost Analysis For Pavement Maintenance At A Network Level
3487	Exploring The Factors Affecting Bike Sharing Usage In Developing Countries: A Case Study On Chandigarh, India



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3502	An Effective Bitumen-Friendly Polymer For Superior Roadway Performance & Durability
3604	A Statistical Approach To Estimate Gap Acceptance Parameter At Three-Legged Uncontrolled Intersection
3666	Development Of Pervious Concrete For Different Pavement Applications
3689	Passengers Perception And Satisfaction Level Towards Public Transport: A Review
3840	One Part Geopolymer Concrete An Alternative Solution For Conventional Concrete
4019	Identification Of Infrastructural Causative Factors For Road Accidents On Urban Arterial Roads: A Case Study Of Ahmedabad
4135	Determination Of The Non-Recoverable Creep Compliance From Oscillatory Shear Test For Recycled Asphalt Binders
4152	Rheological Investigation Of Soft Grade Asphalt Binder Modified With Crumb Rubber-Nanosilica Composite
4155	Modelling Longitudinal And Lateral Vehicle Movement Behavior Under Multiple Influencing Vehicles
4165	Utilization Of Waste Polyethylene In Open Graded Friction Course
4169	Regularisation Of Micro-Mobility Modes In An Emerging Economy: A Case Of India
4193	Analysis Of Crash Vulnerable Geometries In Large Road Network
4207	Comprehensive Analysis Of Road Accidents And Surrogate Measures To Enhance Road Safety
4327	Visualizing Blackspot Improvement At Nagpur
4347	Proactive Safety Assessment At Unsignalized T intersection Using Surrogate Safety Measures: A Case Study Of Bhopal City
4373	Study Of Pervious Concrete With Different Aggregate Size And Varying Water Cement Ratio
4404	Joint Mode And Shipment Size Choice For Interregional Transportation Of Fruits And Vegetables In India



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4480	Evolution Of Sustainable & Resilient Pervious Concrete Pavement Technologies In India
4547	Evaluation Of Walkability Parameters Through Pedestrian Friendly Approach Using MCDM Technique
4590	Developing Crossing Conflicts-Based Safety Performance Function For Urban Uncontrolled T-Intersections
4625	The Investigation Of Viscoelastic And Rheological Properties Of Rejuvenated Asphalt Binder With Waste Cooking Oil
4661	Ranking-Based Methodology For Prioritization Of Critical Pedestrian Infrastructure In And Around The Market Area: A Case Study Of Aminabad Market, Lucknow
4714	Rheological Characteristics Of Waste Engine Oil-Modified Bituminous Binder
4793	Evaluation Of Physical And Physicochemical Properties Of Bitumen With Lignin From Bio-Ethanol Residue
4814	On-Street Night Parking Demand Estimation: A Case Study At Roorkee
4869	Effect Of Land Use Pattern On Bus Blockage Duration At Curb Side Bus Stops
4884	Optimal Paste Volume Method – Alternative Mixture Proportioning Method For Roller Compacted Concrete Pavements
4907	Comparison Of Shopping Mode Preferences Before And During A Pandemic
4956	Rheological Investigation Of Nano silica-Styrene Butadiene Styrene Modified Soft Grade Bitumen
4968	Performance Evaluation Of Conventional And Field-Produced High Modulus Asphalt Binders And Mixtures
5167	Investigating Impact Of Adaptive Traffic Signal Control On Network Traffic Flow Stability Using Microsimulation Technique
5176	Influence Of Feeding Sequence On The Fluidity And Fluidity Time Of Cement Asphalt Mortar For High-Speed Rail Slab Track
5192	Effects Of Zone Of Influence (ZOI), Weighted Gap And Weighted Relative Speed To Determine Driver Behavior In Mixed Traffic
5291	Computational Geometry Based Kinematic Morphology For Urban Growth: A Mumbai Case Study
5357	Machine Learning Categorization Algorithms For Traffic Conflict Ratings



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5384	Stiffness And Cracking Resistance Evaluation Of Cold Bitumen Emulsion Mixtures Incorporated With Waste Glass Aggregates
5454	Betweenness Centrality Measures As Potential Predictors Of Crash Frequency
5535	Effect Of Warm Mix Additive, RAP And Waste Oil On Rheological Properties Of Binder
5618	Crash Prediction Model For Rural Roads In Mountainous Region Of Uttarakhand, India
5652	Capacity And Level Of Service Analysis Of Fastag Lanes
5704	Effect Of Adaptive Traffic Control System Coupled With Bus Priority Logic At Urban Corridor Using Microsimulation Approach
5725	Estimating The Stress And Strain Conditions In Granular Pavements
5768	Usage Of Exclusive Plastic-Based Pre-Fabricated Panels In Road Construction: A Feasibility Study
5861	Experiment, Simulation And Calibration Of Parameters Of Laboratory Evacuation
5998	Green Mobility In Cities: A Case Of Jabalpur, India
6043	Shapley Additive Explanations For Explaining Artificial Neural Network Based Mode Choice Models
6057	Spatio-Temporal Factors Affecting Short-Term Public Transit Passenger Demand Prediction: A Review
6137	Examining Vehicle Delay Models At Signalized Mid-Block Crosswalks Under Heterogeneous Traffic Conditions
6171	Evaluation Of Effective Thickness Of Bituminous Block Pavement Using Finite Element Approach
6298	Developments In Design Criteria For Granular And Geotextile Filters
6342	Effect Of Cement And RAP Content On Full Depth Reclamation (FDR) Of Low-Volume Roads: A Response Surfaced Based Study
6352	A Fuzzy Logic Approach On Pedestrian Crossing Behaviour At Unsignalized Intersection



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6457	A Framework On Understanding The Barriers Of Smart Cities And Intelligent Transportation System In India
6692	Study Of Vehicle Specific Speed Profiles At Merging And Diverging Sections Of Toll Plaza Using UAV Data
6841	High And Intermediate Temperature Performance Of Crumb Rubber And Nano alumina Modified Asphalt Binder
6853	Bringing Back Cycles On Indian Roads: Transportation And Policy Analysis
6864	Development Of Pavement Maintenance Management System (PMMS) For An Urban Road In New Delhi, India
6897	Stepping Towards Environment Friendly Roads: Government-Initiatives In India
6953	A Study On Design Of Sustainable Bituminous Concrete Pavement With Subgrade Soil Stabilization
7054	Anisotropic Behavior Of Granular Materials: Impact On Flexible Pavement Design
7059	Impact Assessment Of Different Surface Free Energy Components On Work Of Adhesion Between Varied Aggregate Types And VG-40 Bitumen
7201	A Review On Surrogate Safety Measure Using Extreme Value Theory
7252	Performance Based Selection Of An Ideal Asphalt Recycling Agent
7416	Analysis Of Drivers' Level Of Aggressiveness (Loa) At Unsignalized Intersections With And Without The Presence Of Speed Breakers
7446	An Agent-Based Framework For Evaluation Of Off-Hours Freight Strategy-Case Of Jaipur City, India
7607	Examining The Evasive Behaviour Of Pedestrians To Measure Their Degree Of Vulnerabilities At Unsignalised Intersections
7620	Impact Of Transit Accessibility On Mode Choice Behaviour Of Transit Users: New Delhi
7671	A Review Of Berth Allocation Problem In Bulk Terminals
7776	The Adverse Impact Of Headway Variability On Bus Transit Ridership: Evidence From Bengaluru, India



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7779	Exploring The Link Between Cycling Behaviour And Built-Environment Characteristics Of Rural Areas: A Case Study Of Selected Villages In Madhya Pradesh, India
7973	Can India Adopt The Developed Countries Model Of Electric Vehicle Diffusion?
7980	Assessment Of Satisfaction Level For Bus Transit Systems In Bhopal
8019	Investigation Of Effect Of Aging On Reflection Cracking In Flexible Pavement Overlays
8302	MCDA Approach To Evaluate Planning & Consolidation Strategies For Urban Goods Distribution- Case Of Jaipur City India
8350	Exploring Pagerank Algorithm And Voronoi Diagrams For Dynamic Network Partitions Facilitating Feedback Linearization Based Control
8382	Aggregate Characteristics And Its Influence On Air Void Of Bituminous Mixes
8517	Strategies For Improving Travel Time Performance Of Multimodal Transport System
8562	Development Of An Indian Motorised Two-Wheeler Rider Behaviour Questionnaire
8620	Performance Evaluation Of Partially Replaced Waste Treated Bricks In Bituminous Mixture
8641	Experimental Study On Effect Of Reclaimed Asphalt Pavement On Resilience Modulus Of Subgrade
8901	E-Bus Transit System Planning And Optimization Considering Mixed Fleet Operation Using Machine Learning Algorithms
8921	Compatibility Assessment Of Wastes With Crumb Rubber For Use In Paving Applications: Advanced Material Characterization & Chemical Assessment
9165	On-Road Pollution Exposure In Multiple Transport Micro-Environments: A Case Study Of Tier 2 & Tier 3 Cities In India
9391	Evaluation Of Spatiotemporal Transit Accessibility: Case Study Surat, India
9482	Meta-Analysis Of The Methodologies Used For Road Accident Costing And Conceptualizing Framework For Road Accident Compensation.





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9550	Measurement Of Rheological Properties Of Bituminous Mixtures Using Dynamic Shear Rheometer
9569	Tribological And Rheological Characterization Of Bituminous Binders With Chemical Warm Mix Additives
9610	Measuring The Performance Of Exclusive Motorcycle Lanes: A Case Study
9627	Investigating Pedestrian Crash Risk At Unsignalized Midblock Crosswalks On Arterial Road
9642	Economic Benefit Assessment Of Black Spot Improvements
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9782	Insitu Recycling Of Concrete Waste Using Mobile Crushers For Paving Applications
9822	Ultraviolet Radiation Ageing Of Asphalt: A Critical Review
9833	Strength And Durability Characteristics Of Stabilized Clayey Soil For Low Volume Roads
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10001	Geospatial Techniques And Drone Survey Technology In Transportation Engineering
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10003	Development Of Parking Rate Models For Kerala – A Case Study Of Kozhikode City
10004	Evaluation Of Hot Mix Plant Batch Report Analysis As A Quality Control Parameter To Improve The Quality Of Bituminous Mix During Construction