

3rd Conference of Transportation Research Group of India (3rd CTRG)

17 - 20 December, 2015

Venue: The Lalit Great Eastern, Kolkata, INDIA



EXECUTIVE COURSE DETAILS

Date= 17 Dec'15

Time: 9.00 -16.00 (Lunch: 12.00 -13.00)

Executive Courses 1 (Sessions 1 & 2)

Room: The Great Ball Room I

EC-1 Improving Road Safety & Accessibility

Dr. Sudeshna Mitra, Ms. Martine Micozzi, Prof. Lalita Sen, Ms. Claire Niclause, Dr. Mark King, Ms. Abha Negi & Ms. Nupur Gupta.

Executive Courses 2 (Sessions 1 & 2)

Room: Quorum IV

EC-2 Activity-Based Modeling of Transport Network Demand and Performance

Dr. Chandra R. Bhat, Ram M. Pendyala & Konstadinos G. Goulias

Date= 17 Dec'15

Time: 13.00 - 17.00

REGISTRATION

Date= 17 Dec'15

Time: 17.00 - 18.00

Room: The Great Ball Room I

INAUGURAL CEREMONY



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PLENARY SESSION DETAILS

Room: The Great Ball Room I

Date= 18 Dec'15

PS1: 9.00 - 9.45, PS3: 14.00 - 14.45

PS-1 chair: Prof. Junyi Zhang

PS-3 Chair: Prof. Partha Chakroborty

PS-1 Transportation Infrastructure Asset Management in the New Millennium

Prof. Kumares C. Sinha

PS-3 Road Safety Management in India - The Devil is in the Details

Prof. P. K. Sikdar

Date= 19 Dec'15

PS5: 9.00 - 9.45, PS7: 14.00 - 14.45

PS-5 Chair: Prof. K V K Rao

PS-7 Chair: Prof. Tom Methew

PS-5 Proposing A Generalised Cost/Benefit Analysis by Full Cost/Quality of Life as a replace of Construction Cost/ Benefit: Seeking for GNH rather than GNP

Prof. Yoshitsugu Hayashi

PS-7 Optimization Problems in Transportation: Need for Non-Traditional Tools

Prof. Partha Chakroborty

Date= 20 Dec'15

PS9: 9.00 - 9.45, PS11: 14.00 - 14.45

PS-9 Chair: Dr. Mark King

PS-11 Chair: Prof. P.K. Sikdar

PS-9 Promoting Safer Driving based on a Smartphone App

Prof. Junyi Zhang

PS-11 Predictive Analytics for Transportation Planning and Operations in a World of Big Data

Prof. Chandra Bhat

Room: The Great Ball Room II

Date= 18 Dec'15

PS2: 9.00 - 9.45, PS4: 14.00 - 14.45

PS-2 Chair: Prof. S. Pulugurtha

PS-4 Chair: Prof. Animesh Das

PS-2 Suitability of various Public Transport Systems for Indian cities

Dr. S. Gangopadhyay

PS-4 Sustainable Pavements for High and low Volume Roads

Prof. B. B. Pandey

Date= 19 Dec'15

PS6: 9.00- 9.45, PS8: 14.00 - 14.45

PS-6 Chair: Prof. K.R. Rao

PS-8 Chair: Prof. Ashish Verma

PS-6 Reclaiming the Public Realm to Improve Human Health and the Environment: Urban form and non-motorized transportation in Indian cities

Prof. Subhro Guhathakurta

PS-8 Paradigms for Integrated Modeling in an Era of Connectivity, Automation, and Dynamic Mobility Management

Prof. Ram M. Pendyala

Date= 20 Dec'15

PS10: 9.00 - 9.45, PS12: 14.00 - 14.45

PS-10 Chair: Prof. K.S. Reddy

PS-12 Chair: Prof. Sudeshna Mitra

PS-10 Management, Planning, Design, Construction, Operation, and Preservation, Maintenance and Rehabilitation: A holistic Approach for Resilient Transportation Infrastructure

Prof. Vivek Tandon

PS-12 Accessibility and Safety: Key Components for Inclusive Transportation

Prof. Lalita Sen



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ORAL PRESENTATION DETAILS (18th Dec)

Date: 18 Dec'15

Time: 10.00 - 11.15

PMD-1 Pavement Materials and Design (1)		Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chair: Prof.Animesh Das
708	A comparative Evaluation of Three Different Fatigue Test Methods of Asphalt Mixes <i>Manik Barman, Rouzbeh Ghabchi, Dharamveer Singh*, Musharraf Zaman & Sesh Commuri</i>	
564	Development of Optimum Tire Pressure Model for Indian Condition <i>Swapan Bagui & Atasi Das*</i>	
669	Moisture Susceptibility of Modified Binder Mixes with Evotherm <i>Ashok Julaganti*, Rajan Choudhary & Madhu Lisha Pattanaik</i>	
696	Study on absorption of water and asphalt binder in aggregates <i>Deepak Kumar, Ambika Kuity* & Animesh Das</i>	
603	Influence of Aggregate Gradation on Permanent Deformation Characteristics of Asphalt Concrete <i>Priyansh Singh* & Aravind Krishna Swamy</i>	

TFOM-1 Traffic Flow, Operation and Management (1)		Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chair: Dr.Manish Pal
523	Modeling and Assessing Urban Arterial Street Performance: Average Travel Speed or Travel Time? <i>Srinivas Subrahmanyam Pulugurtha* & Harini Mangilipally</i>	
534	Numerical experiments on a continuum traffic flow model to demonstrate the (in)appropriateness of flux functions <i>M. Sreekumar, Aishwarya Malgonde & Tom Mathew*</i>	
473	Modeling seepage behavior of smaller vehicles in mixed traffic conditions using an agent based simulation <i>Amit Agarwal & Gregor Lämmel*</i>	
512	Studying the effectiveness of using fuel sales as a proxy for estimating seasonal factors of traffic <i>Pranamesh Chakraborty & Partha Chakraborty*</i>	
717	Preliminary Results Towards Evaluating the Effect of Passenger Car Composition by Age on GHG Emissions <i>Srinivas Subrahmanyam Pulugurtha* & Praveena Penmetsa</i>	

FT Freight Transportation		Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.K.R.Rao
493	Determination of the latent variables of mode choice for fish transport <i>Ansu V*, Jijo V Manohar & Anjaneyulu M. V. L. R</i>	
502	Development of Truck Demand Model for Feasibility of Mineral Transportation in Joda Barbil <i>Ravi Sekhar Chalumuri*, Purnima Parida, Rohit Verma, Amresh Kumar & Apooba Bibeka</i>	
519	Robust Optimization of Relief Distribution under Demand Uncertainty <i>Rattanaporn Kasemsri*, Kazushi Sano & Hiroaki Nishiuchi</i>	
525	An Improved Approach to Forecast Mormugao Port Freight Flow <i>Prasanta K. Sahu* & Gopal R. Patil</i>	
453	Effect of Urban Freight Regulations on Supply Chains: A Game Theoretic Approach using Bi-Level Programming <i>Chitresh Kumar*, T. A. S. Vijayaraghavan, Abhishek Kumar Chakraborty & Russell George Thompson</i>	

TBTD-1 Travel Behaviour and Travel Demand (1) (Jointly with SIG-D3, WCTRS)		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.K.V.K.Rao
481	Activity-Travel Pattern Choice Model in the context of Developing Countries <i>Saladi S. V. Subbarao* & K. V. Krishna Rao</i>	
728	Two stage choice based demand model for rural feeder service to bus stop <i>Sudhanshu Sekhar Das* & Bhargab Maitra</i>	
445	Sensitivity analysis for personal rapid transit system <i>Udit Jain*, Pradip Kumar Sarkar & Anupam Vibhuti</i>	
539	A Dynamic Model for a Scenario based Analysis of Modal Split of Road based Passenger Mobility <i>Anantha Lakshmi Paladugula*, Sujaya Rathi & Abhik Kumar Das</i>	
725	Valuing Travel Attributes of Public Transport as Perceived by Commuters in Bhubaneswar <i>Debasis Basu* & Abhijit Datta Banik</i>	

PMD-2 Pavement Materials and Design (2)		Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chairs: Prof.D.Singh & R.Choudhary
553	Laboratory Analysis of Bituminous Concrete (BC) Mix Using Asphalt Mixture Performance Tester (AMPT) <i>Devesh Tiwari, Shahbaz Khan* & Deepak John Peter</i>	
646	Influence of confinement pressure on the development of three stage curve for bituminous mixtures <i>V.G. Gayathri, V. Yoga Priyadarshini, K. Lakshmi Roja & Dr. J. Murali Krishnan*</i>	
584	Extension of asphalt pavement life by reduction of temperature <i>Rajib Basu Mallick, Dharamveer Singh* & Veeraragavan A</i>	
608	Influence of Low Molarity Sodium Hydroxide and Curing on Mechanical Properties of Geopolymer <i>Sundeep Inti, Megha Sharma & Vivek Tandon*</i>	
477	A Rational Strategy for Maintenance of Low Volume Road Network <i>Pradeep Kumar Agarwal, Sandeep Choudhary & Abdul Basit Khan*</i>	

TFOM-2 Traffic Flow, Operation and Management (2) Jointly with SIG-H3,WCTRS		Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chair: Prof.Ashish Verma
464	Impact assessment of speed breaker on traffic flow behaviour at urban mid-block section using cellular automata <i>Ashutosh Kantibhai Patel* & Dr. Pradip J Gundaliya</i>	
573	Comparative Evaluation of Density Estimation Methods on Different Uninterrupted Roadway Facilities: Few Case Studies in India <i>Nipjyoti Bharadwaj*, Pallav Kumar, Ajinkya Mane, Shrinivas Arkatkar, Ashish Bhaskar & Gaurang Joshi</i>	
684	Speed-Time Models of Deceleration Manoeuvre of Various Vehicle Types at Signalized Intersection <i>Dr.Prashant Shridhar Bokare* & Dr. Akhilesh Kumar Maurya</i>	
591	Optimization of Earthwork Cost for Road Project using Mathematical Programming <i>Sanjay C. Choudhari, Prasanta K. Sahu* & Debopam Roy</i>	
484	Development and application of safety performance functions for urban uncontrolled intersections <i>Anjana Sadanandan* & Anjaneyulu M.V.L.R</i>	

FT+RT Freight Transportation + Rail Transportation		Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.Vinod Vasudevan
624	Mode Choice Behaviour of Shippers in Regional Freight Movement, Case Study-Kerala <i>Tarun Cherian George* & Sanjay Gupta</i>	
698	Freight trip distribution patterns and impacts of freight transportation activities due to commercial land use: A case study of Sarojini Nagar market area <i>Saubhagya Dixit, K. Ramachandra Rao* & Geetam Tiwari</i>	
454	Urban Freight and Supply Chain – The Neglected Stakeholder: An Analysis of Current Research Trends <i>Chitresh Kumar*, T.A.S. Vijayaraghavan, Abhishek Kumar Chakraborty & Russell Geroge Thompson</i>	
478	Actionable intelligence to improve services and customer satisfaction in railroad logistics <i>Alok Patel, Raju Kandukuri* & Akanksha Patel</i>	
522	Evaluating Rail-highway Grade Crossing Operational Performance Measures to Assist with Grade Separation Decisions <i>Srinivas Subrahmanyam Pulugurtha* & Ravishankar Potty Narayanan</i>	

TBTD-2 Travel Behaviour and Travel Demand (2) Jointly with ATPIO		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.Anuj Sharma
612	Spatial distribution of urban trips in recently expanded Surat city through Fuzzy Logic and Artificial Neural Network: A comparative study <i>Salini P S*, Ashu Kedia, Sowjanya Dhulipala & Bhimaji Krishnaji Katti</i>	
527	Impact of Model Specification on the Estimation of Value of Time <i>Neeraj Saxena*, Taha Hossein Rashidi & Vinayak V. Dixit</i>	
479	An approach for improvement of transfer facilities at metro stations <i>Shubhajit Sadhukhan*, Uttam K. Banerjee & Bhargab Maitra</i>	
451	Assessment of Driving Behaviour and Skills of Heavy Vehicle Drivers in India <i>Neelima Chakrabarty*, S. Velmurugan, Kamini Gupta & Reetesh Rikku</i>	
643	Transportation Investment Decision Making for Medium to Large Transportation Networks <i>Sabyasachee Mishra, Amit Kumar*, Mihalios M. Golias, Timothy F Welch, Hossein Taghizad & Khademul Haque</i>	

Date: 18 Dec'15

Time: 15.00 - 16.30

PER	Pavement Evaluation and Recycling	Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chair: Prof.J.N.Mandal
665	Fatigue performance of bituminous mixes containing reclaimed asphalt pavement (RAP) material <i>Gubbala Chaitanya, Mullapudi Ramya Sri* & Kusam Sudhakar Reddy</i>	
676	Development of GIS Based Tool for Pavement Maintenance Activities at Network-Level <i>Sarfaz Ahmed*, Vedagiri Perumal & K V Krishna Rao</i>	
494	Evaluating the performance of hot mix asphalt with reclaimed asphalt pavement and engine oil as rejuvenator <i>Ashwini Vishnu Shanbhag*, Lalithamba H S, Anand Tadas & Dinesh S V</i>	
675	Investigation of temperature dependent load-deflection linearity for Falling Weight Deflectometer test in different types of pavements in India <i>Biplav Patra*, Prathmesh Jichkar & Kusam Sudhakar Reddy</i>	
499	Simulation Studies on Pavement Performance Parameters <i>Kuldeep Kalita* & Pabitra Rajbongshi</i>	
680	Structural Evaluation of Pavement Using Falling Weight Deflectometer (FWD) – A Case Study <i>Chandan Basu*, Atasi Das & Tanmoy Das</i>	

INT	Intersection	Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chairs: Prof.P.Vedagiri & Prof.S.Arkatar
578	Effect of traffic signal countdown timers on pedestrian crossings at signalized intersection <i>Sabyasachi Biswas*, Indrajit Ghosh & Satish Chandra</i>	
657	Modelling of the Gap Phenomena at U-turn Provisions on the Median Openings of Inter-Urban Highway Corridors <i>Md Rashid Khan*, Ravi Sekhar Chalumuri & Velmurugan S</i>	
685	A Methodology of Deriving Cycle Time for Two Way Coordination of Pre-Timed Traffic Signals on an Urban Arterial <i>Pranaykumar Mahendrakumar Shah* & Harishkumar Ratilal Varia</i>	
720	Analysis of Staged Movements at Four Legged Median Separated Uncontrolled Intersection <i>Akhilesh Kumar Maurya* & Harsh Jigish Amin</i>	
546	Right Turning Movement Factors in Calculation of Saturation Flow Rate at Signalised Intersections of Heterogeneous Traffic Conditions <i>Savitha B G*, Dr Sundarajan T, Dr Jagadeesh H S & Sathish H S</i>	
693	Analysis of platoon dispersion in non-lane based mixed traffic operation <i>Bhaskar Paul*, Abhishek Ashish, Sudeshna Mitra & Bhargab Maitra</i>	

TEPP-I	Transport Economics, Planning and Policy (1)	Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Dr.Kayitha Ravinder
497	Customer-Centric Transformation of Public Bus Supply in Rural Counties <i>Florian M Heinitz*</i>	
514	Road network accessibility and socio-economic disadvantage across Adelaide metropolitan area <i>Sekhar Somenahalli*, Michael Taylor & Susilawati Susilawati</i>	
596	MARS Model of West Yorkshire and the Use of Aggregate Models <i>Chandra Balijepalli, Simon Shepherd & Syed Rahman*</i>	
568	Evaluation of bus route operations using fuzzy AHP <i>Dewal Mishra*, Makrand Mahadev Wagale, Ajit Pratap Singh & Ashoke Kumar Sarkar</i>	
503	Effective Cost and Revenue Modelling for State Transport Undertakings in India-Case Study on MCTD <i>Yashas Bhargav*, Bhushan Kurvey & Shan Venkat</i>	
672	Impact of Roadside Friction on Travel Speed and LOS of Rural Highways in India <i>Sudipta Pal* & Sudip Kr Roy</i>	

SD	Sustainable Development	Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.G.J.Joshi
641	Feasibility of Incorporating Social Life Cycle Assessment in Sustainability Assessment of Highways <i>Sundeep Inti & Vivek Tandon*</i>	
611	A Study on Assessment of Willingness of Road User to Bicycle in Bhopal City <i>Meenu Tomson, Siddhartha Rokade, Rishabh Jain* & Ayush Agarwal</i>	
542	Feeder Transport System Facilities at Public Transport Terminals– A Case Study of Delhi <i>Jasmeet kaur, Neelam J. Gupta*, Subhash Chand & E.Madhu</i>	
670	Impact of quality of public transport on private vehicle ownership <i>Sarojeet Dash, Ruchika Agarwala* & Vinod Vasudevan</i>	
651	Investigating the influence of Trip Distance on Travel Behaviour of Non-Motorized Transport (NMT) users <i>Swarup Mondal*, Sudeshna Mitra & Bandhan Bandhu Majumdar</i>	

Date: 18 Dec'15

Time: 17.00 - 18.15

TS Transport Safety		Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chair: Prof.Lalita Sen
521	Estimation of Road Accident Cost in India through Willingness to Pay Approach <i>Sivakumar Balakrishnan*, Geethu Ashok & Krishnamurthy Karuppanagounder</i>	
532	Road safety investment using iRAP star ratings and safer roads investment plans <i>Jigesh Bhavsar* & Luke Rogers</i>	
447	Design of UML Architecture for Advanced Accident Information System <i>Kumari Pritee* & Dr. R.D. Garg</i>	
537	Effects of gender on the beliefs and purpose of drivers' mobile phone use <i>Asif Hassan* & Vinayak Dixit</i>	
567	Analysis of aspiration for owning a car among youths in a city of a developing country, India <i>Meghna Verma, Manoj Malayath & Ashish Verma*</i>	

TTR Travel Time Reliability		Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chair: Dr.S.Velmurugan
470	Bus Travel Time Prediction Using Support Vector Machines <i>Kranthi Kumar Reddy, B. Anil Kumar* & Lelitha Vanajakshi</i>	
471	Particle Filter for Reliable Bus Travel Time Prediction under Indian Traffic Conditions <i>B Dhivyabharathi*, B Anil Kumar, Lelitha Vanajakshi & Manoj Panda</i>	
681	Study of travel time variability using two-wheeler probed data-A case study of urban arterial in Surat <i>Amol Wagh, Akhilesh Chepuri*, Shriniwas Arkatkar & Gaurang Joshi</i>	
569	Challenges of Autonomous Car Driving in Indian Context <i>Dr. Ashish Verma*, Rajeev Kumar Sharma & Prithvi Bhat B</i>	
501	Effect of Vehicular Gaps on Pedestrian Speed Characteristics at Unprotected Mid-block Crosswalks <i>Bhadradri Raghuram Kadali & P Vedagiri*</i>	

TF Transport Finance		Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.Florian Heinitz
566	Evaluation of comparative performance of public transport services in Indian cities <i>Pradeep Kumar Agarwal, Jitendra Gurjar & Vikram Gupta*</i>	
682	Rationalization of Data and Travel Demand Forecasting for State Highways <i>Jahar Ranjan Sarkar*, Sandeep Jald, Syama Prasad Datta & Sanyasi Kumar Venkata Sankara Lalam</i>	
661	An Approach for Prioritization of State Highways and Its Application <i>Sudipta Pal*, Bhargab Maitra & Jahar Ranjan Sarkar</i>	
572	Efficiency, heterogeneity and cost function analysis: empirical evidence based on Indian Railways operating zones (2004 to 2012) <i>Smith. A.S.J & Rahman S*</i>	
590	Modeling land use allocation in a bounded region based on Person trip kilometers for mitigating traffic impact <i>Ashish Verma* & Alpna Kumari</i>	

PMD-3 Pavement Materials and Design (3)		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.M.A.Reddy
524	Determination of optimum batch mix proportions from reliability considerations <i>Hemant Gehlot & Partha Chakraborty*</i>	
452	Stability Analysis of Dense Bituminous Macadam Using Waste Plastics and Waste Tires <i>Satyam Singh, Sunny Davidson Maditha*, Shankar Sabavath & C S R K Prasad</i>	
600	Development of Model for Tyre Pavement Noise Interaction <i>A Ramesh*, R Ramu, B Naga Malleswara Rao & Molugaram Kumar</i>	
556	Comparative study of Hot Mix and Warm mix Design of Bituminous Concrete using Rediset LQ Additive <i>Ambika Behl*, Siksha Swaroopa Kar, Pramod Kumar Jain & Uma Devi Rongali</i>	
555	Methodology for Controlling Overloading and Construction Cost Optimization <i>Swapan Bagui & Atasi Das*</i>	

Date: 19 Dec'15

Time: 10.00 - 11.15

Disaster Resilient Transport - Special Session With SIG-G6, WCTRS		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.Ashish Verma
480	Carbon foot print assessment and comparison for flexible and rigid pavements <i>Krishnamurthy Karuppanagounder* & Manjusha P. K</i>	
623	Greenhouse gas mitigation policies for transport sector in India <i>Sudheer Ballare, Munish Kumar Chandel*, Anil Kumar Dikshit & Sayali Kumar</i>	
	Invited Papers	



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POSTER PRESENTATION DETAILS

Date: 19 Dec'15

Time: 10.00 - 11.15

Poster Session-I

Room: The Great Ball Room II

Paper ID	Paper Title & Authors
448	Using traffic flow and speed to quantify urban traffic congestion <i>Arti Choudhary* & Sharad Gokhale</i>
460	Perception Based Level of Service for Uncontrolled Midblock Crossing <i>Vivek R Das*, Satish Chandra & Rajat Rastogi</i>
468	A rational methodology to improve safety on road network in developing countries <i>Pradeep Kumar Agarwal, Rakesh Mehar & Kamlesh Kumar Ahirwar*</i>
474	Geometric Design Consistency and Safety Evaluation of Combined Curves on Two-Lane Rural Highways <i>Anitha Jacob* & Anjaneyulu M V L R</i>
492	Effect of Roadway Condition on Operating Speed of Two Lane Intercity Roads <i>Satish Chandra, Chalumuri Ravi Sekhar & Ashish Walia*</i>
495	Assessment of Capacity of Urban Midblock Sections Under the Influence of Varying Compositions of Slow Moving Vehicles <i>Kirti Mahajan, Ankit Gupta*, Satish Chandra & Anurag Ohri</i>
500	Spatial and statistical analysis of road accidents hot spots using GIS <i>Jayvant Choudhary*, Anurag Ohri & Brind Kumar</i>
507	Predictive Modeling of Road Accidents on Non-Urban Sections of Highways in Haryana: A Case Study <i>Gyanendra Singh, S. N. Sachdeva & Mahesh Pal</i>
511	Case Study of Shared Auto-Rickshaw Sector In Silchar <i>Paranjyoti Lahkar, Pabitra Rajbongshi* & Geetam Tiwari</i>
528	Investigation of Factors Affecting the Consistency of Short-Period Traffic Counts <i>Solomon Yadessa Kenno, Prasanta K. Sahu*, Babak Mehran & Satish Sharma</i>
530	Design of a Planar Antenna for Vehicle Tracking Using DSRC <i>Shivesh Tripathi, N. P. Pathak & M. Parida</i>
541	Traffic Circulation Improvement Study for Chandigarh Railway Station Development Project using Micro Simulation Model <i>Nimisha Pal, Jitendra Wadhvani & Swarup Mukharjee*</i>
543	Human Capital Approach to Estimate the Road Accident Cost in India <i>Sivakumar Balakrishnan*, Sikha P & Krishnamurthy Karuppanagounder</i>
550	Estimation of roundabout capacity under heterogeneous traffic conditions <i>Muhammed Ashraf K, Arun Baby Zacharia*, Harikrishna M & M V L R Anjaneyulu</i>
551	Saturation flow of heterogeneous traffic at signalized intersection <i>Shubham Sehgal*, Neelam Jain Gupta, Subhash Chand & S. Velumurugan</i>
563	Time Headway Modeling of Mixed Traffic on Two-Lane Highways <i>Rupali Roy*, Pritam Saha & Ashoke Kumar Sarkar</i>
576	Disaggregate mixed traffic flow characteristics and headway distribution study for multilane metropolitan arterials <i>Maulik Bagadiya, Shrinivas Arkatkar* & Gaurang Joshi</i>
580	Linking urban population density to the mode of urban transport – A case study of Vadodara <i>Nachiket S Gosavi*, Lakshmikanth Hari & Dinesh S Hegde</i>

Paper ID	Paper Title & Authors
588	Investigating the effect of geometric design consistency on safety of highway section: A case study on Panagarh-Dankuni section of National Highway 2, India <i>Sandeepan Roy & Sudeshna Mitra*</i>
597	A Modified Approach to Estimate Walkability Index – A Case Study <i>Teja Tallam* & Rajat Rastogi</i>
605	Determination of acceptable trip distance for walking & cycling using SP technique: A case study of Bhubaneswar city <i>Punyabeet Sarangi*</i>
609	Study of Platoon Characteristics on Urban Arterials - A Case Study of Delhi <i>A.Pradeep Ram, Amudapuram Mohan Rao* & S. Velmurugan</i>
615	Effect of vehicle-type on gap-acceptance behavior at unsignalized intersections in mixed traffic conditions <i>D. Abhigna*, Dipak Prakash Brahmankar & K. V. R. Ravishankar</i>
626	Characteristics of Pedestrian Traffic on Sidewalks: a Case Study in Kolkata Metropolis <i>Soumyadip Das*, Deotima Mukherjee, Pritam Saha & Sudip Kumar Roy</i>
633	Use of traffic sensor data for estimating multilane highway capacity <i>Kalaanidhi S, Karthiga K & Gunasekaran K*</i>
636	Geometry-induced on the performance of Roundabouts in Indian city <i>Radha Jagdish Gonawala* & Rakesh Kumar</i>
650	What affects longer bicycle travel: An investigation across two small sized Indian cities <i>Bandhan Bandhu Majumdar* & Sudeshna Mitra</i>
662	Study of Operating Speeds on Two Lane Hilly Roads in India <i>Prasad Hinukale, Ajinkya Mane, Shriniwas Arkatkar* & Gaurang Joshi</i>
664	Re-visioning theoretical approaches and principles concerning democratization of street planning in Indian cities <i>Sarbeswar Praharaj*</i>
667	Effects of speed humps on bicyclists <i>Tanuj Patel & Vinod Vasudevan</i>
668	Optimization of Parking Layouts at Multimodal Passenger Terminals <i>Anil Kumar* & Dr. Manoranjan Parida</i>
671	Effect of bus characteristics and in-vehicle crowding on boarding and alighting time: An experience in Kolkata <i>Kinjal Bhattacharyya, Saurabh Dandapat* & Bhargab Maitra</i>
686	Design of Nonlinear Model Reference Adaptive Controller for Automatically Driven Indian High Speed Trains <i>M Ganesan* & D Ezhilarasi</i>
688	Future of Bicycle as a Sustainable Alternate Transportation Mode in Dhaka <i>Dabaraj Dey*, Sanzida Akter & Md. Abu Bakkar Siddique</i>
692	Macroscopic Traffic flow analysis on Multi-lane Highways under Mixed traffic conditions <i>Praveen Kgnv, Seelam Srikanth* & Arpan Mehar</i>
699	A methodology to calculate inter-vehicular longitudinal distances in heterogeneous traffic stream <i>Anuj Kishor Budhkar* & Akhilesh Kumar Maurya</i>
702	Speed distribution patterns and vehicle class-wise speed-density relationship under two-lane bidirectional traffic <i>Shreya Dey & Akhilesh Kumar Maurya</i>
709	Examining Variation of Dynamic PCU Values for Inter Urban Highways Under Heterogeneous Traffic Conditions <i>Ravi Sekhar Chalumuri, Velmurugan S, Nataraju Jakkula* & Sitaramanjaneyulu K</i>
730	Estimation of Socio-Economic Cost of Road Accidents in Patna <i>Ranja bandyopadhyaya & Gaurav kumar</i>

Date: 19 Dec'15
Poster Session-II

Time: 11.30 - 12.45
Room: The Great Ball Room II

Paper ID	Paper Title & Authors
450	A Pragmatic Approach On Use Of Beneficiated Recycled Concrete Aggregates In Pqc Mix <i>Abhishek Jindal*, G. D. Ransinchung R. N., Praveen Kumar & J. B. Sengupta</i>
462	Creep and Recovery as a Function of Conventional Binder Properties <i>Nikhil Saboo* & Praveen Kumar</i>
465	Modelling Trip Distribution Using Fuzzy Logic Approach <i>Darshana Othayoth* & Bhimaji K Katti</i>
467	Study on Conventional Properties Enhancement of Bitumen by adding Milk Pouch <i>Sandip Karmakar* & Tapas Kumar Roy</i>
485	Study of Abrasion Resistance on Pervious Concrete <i>M. Uma Magesvari* & Dr.V. L. Narasimha</i>
498	Horizontal Alignment Design Using Path Planner Algorithm <i>Sushma Mb*,Avijit Maji & Abhinab Bhattacharjee</i>
516	Assessment of black rice husk ash as mineral filler in hot mix asphalt <i>Raja Mistry* & Tapas Kumar Roy</i>
535	Effect of modifiers on the ageing properties of bitumen: A review <i>Bhupendra Singh* & Praveen Kumar</i>
545	Mode Shifting and Chaining Behaviour of Urban Travellers due to the Introduction of New Metro Rail Line <i>Neha Shirbhate* & K V Krishna Rao</i>
549	Walking and crossing behavior in varying pedestrian environments <i>Dr. Kamal Singh* & Dr. Pradeep Kumar Jain</i>
559	Characterization of Red Mud as a Subgrade Construction Material <i>Sarat Kumar Das,Subrat Kumar Rout & Shamshad Alam*</i>
575	Estimation of Trip Attraction Rates of Commercial Land Use in Bhopal City <i>Siddhartha Rokade, Anuj Jaiswal & Ashik K Azad</i>
577	Laboratory Evaluation of Viscosity Grade Bitumen for their Compliance Properties for Performance Grade Bitumen <i>Sajitha Sasidharan*,Nagabhushana M N,Sreelatha T & Shahbaz Khan</i>
602	Urban transportation demand management: A review of strategies, modelling frameworks, and a case study <i>B. K. Bhavathrathan* & Gopal R Patil</i>
627	Highway Cost Allocation Study in India – Ways and Means <i>Sasanka Bhushan Pulipati*,Nitin Tiruttani & Sankalp Jahagirdar</i>
649	Combined influence of zero shear viscosity, air voids and binder content on the permanent deformation characteristics of bituminous mixtures <i>Kolusu Bhargavi,Syed Mubashirhussain*,Venkaiah Chowdary & D. S. N. V. Amar Kumar</i>
653	Transit Shift Response Analysis Through Fuzzy Rule Based – Choice Model: A Case Study Of Indian Metropolitan City <i>Ashu Shiv Kumar Kedia,Sowjanya Dhulipala*,Salini Ps,Jabeena Mannilthodi & B K Katti</i>
654	Importance of Bus Service Attributes from Commuter's Point of View: A Tale of Two Cities <i>Santanu Ghosh* & Bhargab Maitra</i>
659	Analysis of Short Paneled Concrete Pavement for Urban Roads <i>Swati Roy Maitra*,K S Reddy,L S Ramachandra & B B Pandey</i>
663	Design of Cementitious Grout for Grouted Bituminous Mixes <i>D. Sita Remi Reddy & Prof. K. Sudhakar Reddy</i>
677	Comparative analysis of bituminous overlay design thickness using Falling Weight Deflectometer (FWD) and Benkelman beam deflection (BBD) method <i>Shahbaz Khan , M N Nagabhushana , Devesh Tiwari & P.K.Jain</i>

Paper ID	Paper Title & Authors
687	Effect of Development of Rural Roads and Feeder Service on Trip Characteristics of Households: A Case Study <i>Bulusu Siri Aparna*, Prashant Prasad & Bhargab Maitra</i>
690	A Comparative Study on Use of RAP in Hot and Cold Mix Recycling <i>Anil Pradyumna Thondepu*, Sravani Arimilli & Pramod Kumar Jain</i>
700	Performance evaluation of gravel road sections sealed using open graded premixed surfacing with bitumen and bitumen emulsion as the binders <i>Dasari Rohith, Kakara Srikanth*, Venkaiah Chowdary & C. S. R. K. Prasad</i>
705	Development of Trip Generation Models for the NCT of Delhi <i>R. Rejitha Nath*, Ravi Sekhar Chalumuri & Madhu Errampalli</i>
712	Road blockage estimation due to building debris using satellite Images for post-earthquake scenario - Case study of Delhi, India <i>Anusha C S*, Dr Ashish Verma & Dr Anbazagan P</i>
718	Laboratory Studies on Bituminous Concrete Mixes Using Lime Stone Waste for Paving Applications <i>Sidramappa Sharanappa Awanti*, Kailash Suryakanta Kinagi & Alingprabhu Sidramappa Patil</i>
721	A Methodology for Designing Fibre Reinforced Concrete Pavements <i>Sunitha K Nayar* & Ravindra Gettu</i>
723	Volumetric Properties of Warm Mix Asphalt Mixes with Virgin Binder <i>Madhu Lisha Pattanaik*, Rajan Choudhary, Neero Gumsar Sorum & Ashok Julaganti</i>
727	Effect of Material Characteristics on Flexible Pavement Rutting Phenomena in Gujarat <i>Jyoti Trivedi* & Rakesh Kumar</i>



3rd Conference of Transportation Research Group of India (3rd CTRG)

17 - 20 December, 2015

Venue: The Lalit Great Eastern, Kolkata, INDIA

ORAL PRESENTATION DETAILS (20th Dec)

Date: 20 Dec'15

Time: 10.00 - 11.15

PMD-4 Pavement Materials and Design (4)		Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chair: Prof.B.B.Pandey
513	What is transition temperature for bitumen and how to measure it? <i>M. R. Nivitha & J. Murali Krishnan*</i>	
617	A study on improvement in engineering properties of dense grade bituminous mixes with coal ash by using natural fiber <i>Saswat Biswapriya Dash* & Mahabir Panda</i>	
459	Rheological Study on Mixing Temperatures for Modified Binders <i>Nikhil Saboo* & Praveen Kumar</i>	
691	Comparison of AASHTO T283 and Moisture Induced Sensitivity Tester Conditioning Process on the Moisture Resistance of Bituminous Concrete Mixtures <i>Utsav Vishal*, Arunkumar Goli & Venkaiah Chowdary</i>	
678	Rehabilitation of Existing Flexible Pavement- A Case Study <i>Tarun Sengupta & Barnali Roy*</i>	

TFOM-3 Traffic Flow, Operation and Management (3)		Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chair: Prof.Gregor Lammel
724	Review of Alignment Design Consistency in Mountainous/Hilly Roads <i>Suresh Nama*, Akhilesh Kumar Maurya, Avijit Maji, Praveen Edara & Prasanta Kumar Sahu</i>	
517	Implications of curbside bus stops on traffic flow of urban arterials <i>Sai Chand* & Satish Chandra</i>	
557	Parking Fees: A tool to manage parking problems in urban areas in developing economies <i>Shripad Anant Vaikar* & Harpreet Kaur</i>	
565	An empirical study of vehicle time headways for different roadway facilities <i>Sanhita Das*, Geetimukta Mahapatra, Akhilesh Kumar Maurya & Anil Minhans</i>	
571	Comparison of passenger car unit values for urban mixed traffic at signalized intersections <i>Sabyasachi Biswas*, Indrajit Ghosh, Satish Chandra & Jagbir Singh</i>	

TEPP-2 Transport Economics, Planning and Policy (2)		Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.Ashish Verma
640	Quantifying rural accessibility: A tool for policy makers <i>Pragun Vinayak* & A.K Sarkar</i>	
570	Computation of Mixed Strategy Nash Equilibrium for a High Speed Rail market entry game <i>Varun Raturi & Ashish Verma*</i>	
586	Transport network characteristics and real-estate undercurrents: The effect of spatial non-stationarity on property pricing in Mumbai <i>Varun Varghese*, Sayantani Sarkar, Ronita Bardhan, Nagendra Velaga & Arnab Jana</i>	
607	Performance Analysis of Sub Urban Rail System in Delhi - A Case Study <i>Rahul Raoniara, Amudapuram Mohan Rao* & S. Velmurugan</i>	

TBTD-3 Travel Behaviour and Travel Demand (3)		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.C.Bhat
518	A Descriptive Analysis of Mode Choice and Choice Set Formation in Mumbai Metropolitan Region <i>Rounaq Basu*, Gopal R. Patil & Taha Hossein Rashidi</i>	
616	Land Use and Transportation-Understanding Linkage Between Travel Behaviour and Residential Location <i>Navyatha Metta*, Nisha Radhakrishnan & Samson Mathew</i>	
482	Transport data model for successful ITS in STUs <i>Suvajit Sengupta* & Rachitha Srinivas</i>	
533	Clustering Models for Food Rescue and Delivery Problem <i>Divya J Nair*, David Rey & Vinayak V Dixit</i>	
587	Creating a Synthetic Population: A Comparison of Tools <i>Shubham Jain*, Nicole Ronald & Stephan Winter</i>	

Date: 20 Dec'15

Time: 11.30 - 12.45

Workshop by Springer

Room: The Great Ball Room I

UI Unsignalized Intersection		Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chair: Prof.S. Mitra
446	Using Severity Conflict Indexes to assess safety impact of deceleration lane at Thai U-turns <i>Inder Pal Meel*, Dussadee Satirasetthavee & Kunnahee Kanitpong</i>	
629	Classification of Un-Signalised Mid-Block Zebra Crossing <i>Siddharth Jhawar*, Syed Adeel Zaki & Pragun Vinayak</i>	
531	Modeling the placement of conflicting traffic at uncontrolled median openings <i>Smruti Sourava Mohapatra* & Partha Pratim Dey</i>	
SS Subgrade Soil		Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.Syam Nair
644	Shear and Deformation Behaviour of Stabilized Subgrade Soil by Fly Ash and Bagasse Ash under Repeated Compressive Load <i>Aditya Kumar Anupam*, Praveen Kumar, G D Ransinchung R N & Maninder Singh</i>	
604	Use of Jarosite in Rigid Pavement <i>Vipul Arora*, S N Sachdeva & Paratibha Aggarwal</i>	
463	Strength and compressibility characteristics of fiberreinforced subgrade and their effects on response of granular fill-subgrade system <i>Kousik Deb* & Yogesh Kumar Narnaware</i>	
703	Impact of Water on Properties of Hydrate Phases in Lime Stabilized Subgrade Soils <i>Sayantan Chakraborty & Syam Nair*</i>	
614	Sandy Soil Stabilization using Mutated Bacteria <i>Megha Sharma, Sundeep Inti & Vivek Tandon*</i>	
TBTD-4 Travel Behaviour and Travel Demand (4)		Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Dr.Mark King
729	Exploring Public Transport Connectivity Index and Delay in Delhi <i>Dr. Ravindra Kumar, Dr. Errampalli Madhu, A.V.A. Bharat Kumar* & Dr. Purnima Parida</i>	
618	Route Choice Behavioral Study With Reference To The Recently Redeveloped Ring Road With Provision Of Number Of Flyovers In Surat City Using Fuzzy Inference System <i>Sowjanya Dhulipala*, Salini P S, Ashu S. Kedia & Bhimaji K. Katti</i>	
683	Effects of Transit Oriented Development Scheme on Travel Demand in Mumbai <i>Biswarup Das* & K V Krishna Rao</i>	
638	Dangerous driving propensity among youngsters <i>Dr. Guneet Singh Assi*</i>	
509	Bus Lane Capacity Estimation for Bhopal Bus Rapid Transit System (BRTS) - An Empirical Approach <i>Anshuman Sharma, Manoranjan Parida, Ch. Ravi Sekhar & Ankit Kathuria*</i>	

Date: 20 Dec'15

Time: 15.00 - 16.00

PF	Pedestrian Flow	Room: The Great Ball Room I
Paper ID	Paper Title & Authors	Chair: Prof.S.K.Roy
707	Passenger Simulation for Habibganj Railway Station Development Using Micro Simulation Model VISWALK <i>Nimisha Pal*, Inapanuri Prasad Rao, Swarup Mukherjee & Vijaya Prasad</i>	
455	Microscopic Modelling of Pedestrian Motion on Unidirectional Sidewalks <i>Tarapada Mandal* & Ujjal Chattaraj</i>	
540	Characteristic Pedestrian Behavioural Differences at a Railway Terminal <i>Monalisa Patra* & K V R Ravi Shankar</i>	
674	Study of Pedestrian Movement on Functionally Different Types of Sidewalks in Kolkata <i>Arunabha Banerjee*, Sudip Kumar Roy & Akhilesh Kumar Maurya</i>	

SIM	Simulation	Room: The Great Ball Room II
Paper ID	Paper Title & Authors	Chairs: Prof. K.V.R.R.Shankar & Prof.G.Lammel
628	Study on traffic flow characteristics at work zones with the aid of simulation <i>Elangovan E, Jebaselwin Gladson D*, Kalaanidhi S, Karthiga K & Gunasekaran K</i>	
515	Short Term Traffic Prediction Using Monte Carlo Simulation <i>Raunak Mishra*, Ajit Pratap Singh, Antriksh Sharma & A.K. Sarkar</i>	
666	Speed-Flow Estimation for Four Lane and Six lane Divided National Highway in India <i>Reema Bera*, Debashish Roy, Ashutosh Arun, Sandip Chakraborty & Sudip Kumar Roy</i>	
639	JuPedSim: an open framework for simulating and analyzing the dynamics of pedestrians <i>Armel Ulrich Kemloh Wagoum, Mohcine Chraibi, Jun Zhang & Gregor Lammel*</i>	

PMD-6	Pavement Materials and Design (6)	Room: Quorum II
Paper ID	Paper Title & Authors	Chair: Prof.K.S.Reddy
585	Strength of Wet Mix Macadam and Water Bound Macadam Bases <i>Saurabh Sharma, Mayajit Mazumdar & Braj Bushan Pandey*</i>	
496	Parametric Study on Short Paneled Rigid Pavements Using Finite Element Method <i>Tanmay Gandhi, Ankit Gupta*, Brind Kumar & Rishabh Goyal</i>	
582	Partial Replacement of Air-Cooled Blast Furnace Slag as Coarse Aggregate in Concrete <i>Pragyan Paramita Das* & Nibedita Pradhan</i>	
476	3D rural road surface points detection using mobile LiDAR data for its condition assessment <i>Manohar Yadav, Arshad Husain, Ajai Kumar Singh* & Bharat Lohani</i>	

PMD-5	Pavement Materials and Design (5)	Room: Quorum IV
Paper ID	Paper Title & Authors	Chair: Prof.M.Panda
726	Rutting Prediction of Flexible Pavement Using Genetic Algorithm <i>Jyoti Trivedi*, Rakesh Kumar & Chakradhar Iyyunni</i>	
706	Field Performance Study on Modified Bituminous Road Sections of National Highway Corridors <i>Sanjay Deori*, Dr. Rajan Choudhary, Dr. Devesh Tiwari, Dr. Subhamay Gangopadhyay & K. Sitaramanjaneyulu</i>	
673	Top-down cracking (TDC) susceptibility of bituminous pavements <i>Mullapudi Ramya Sri, Gubbala Chaitanya & Kusam Sudhakar Reddy*</i>	
536	Thin Whitetopping - An Alternative For Rehabilitation Of Asphalt Pavements <i>Ankush Kumar Sehgal* & S. N Sachdeva</i>	

Date: 20 Dec'15

Time: 16.15 - 17.00

CLOSING CEREMONY