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The TRB 89th Annual Meeting Compendium of Papers includes more than 1,900 research papers. Many of the papers included in the DVD will be published as part of the 2010 Transportation Research Record: Journal of the Transportation Research Board series. The following papers appear in the 2010 Compendium.

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Subject(s): Bituminous Materials; Geology and Earth Materials; Soil Mechanics
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Practice-Ready Papers: Bituminous Materials; Geology and Earth Materials; Soil Mechanics

Implementation of Structural Control Measures for Avalanche Hazard Mitigation Along Transportation Corridors
Hewes, Joshua; Decker, Rand; Merry, Scott; Yount, Jamie
Paper #10-0741
Subject(s): Maintenance; Operations; Safety
Session 600
Practice-Ready Papers: Maintenance; Operations; Safety

Implementation of the Level-Of-Service Component of the Performance Measurement Framework for Performance-Based Road Maintenance Contracts
Ozbek, Mehmet Egemen; de la Garza, Jesus M.; Pinero, Juan
Paper #10-1240
Subject(s): Maintenance; Management and Leadership; Operations
Session 647

Implications of Bioeconomy-Based Fuel Production to the Transportation Infrastructure in Iowa
Boeckenstedt, Randy; Gkritza, Konstantina; Souleyrette, Reginald; Nambsian, Shashi
Paper #10-1190
Subject(s): Environment; Energy and Climate Change; Investing in Our Transportation Future – BOLD Ideas to
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Implications of Saloon Car Design on Suburban Train Dwell Times and Service Punctuality
Coxon, Selby; Burns, Karen; de Bono, Arthur
Paper #10-0345
Subject(s): Public Transportation and Ferries; Rail
Session 524
Importance Measure of Network Components Under Disequilibrium and Braess Paradox
Guo, Xiaolei; Liu, Henry
Paper #10-2622
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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The Importance of Being Early
Parthasarathi, Pavithra; Srivastava, Anupam; Geroliminis, Nikolaos; Levinson, David
Paper #10-1658
Subject(s): Travel Analysis Methods
Session 634
Improved Vehicle Specific Power Bins for Light-Duty Vehicles for Estimating Carbon Dioxide Emissions in Beijing
Xu, Yaofang; Yu, Lei; Song, Guohua
Paper #10-1201
Subject(s): Environment; Energy and Climate Change
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Improving Capacity of Signalized Intersections Based on Assessment of Signal Change Intervals
Wolfermann, Axel
Paper #10-1516
Subject(s): Operations
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Improving Data Quality, Accuracy, and Response in Onboard Surveys: Application of Innovative Technologies
Oliveira, Marcelo; Casas, Jesse
Paper #10-1745
Subject(s): Data and Information Systems; Travel Analysis Methods
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Improving Estimates of Truck Emissions: Modeling Hourly Truck Volumes Using Period-Based Car Volume Data
Liu, Yilin; Gao, H.
Paper #10-2429
Subject(s): Environment; Energy and Climate Change
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Improving Pavement Preservation Treatment Strategy Selection Using Expert System Approach
Cheng, DingXin; Hicks, R.; Ochoa, Alfonso
Paper #10-1267
Subject(s): Maintenance; Pavement Management; Infrastructure Preservation
Session 350
Improving Quality of Demand Forecasts Through Cross-Nested Logit: Stated-Choice Case Study of Airport, Airline, and Access Mode Choice
Hess, Stephane; Ryley, Tim; Davison, Lisa; Adler, Thomas
Paper #10-3008
Subject(s): Aviation
Session 436
Improving Road Weather Hazard Products with Vehicle Probe Data: Vehicle Data Translator Quality Checking Procedures
Drobot, Sheldon; Chapman, Michael; Schuler, Elena; Wiener, Gerry; Mahoney, William; Pisano, Paul; McKeever, Ben
Paper #10-1768
Subject(s): Data and Information Systems; Operations; Safety
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Improving Runoff Water Quality on Construction Sites: Issues and Opportunities
McLaughlin, Richard; McCaleb, Melanie
Paper #10-3127
Subject(s): Geology and Earth Materials; Environment
Session 475
In Situ Measurement of Stiffness During Construction of Hot-Mix Asphalt Pavement
Performance of Graded Crushed Stone
Wang, Long; Xie, Xiaoguang; Najafi, Fazil
Paper #10-2451
Subject(s): Geology and Earth Materials; Soil Mechanics
Session 398

Influence of Narrower Lanes on Bus Sideswipe Crashes
Sando, Thobias; Mbatta, Geophrey; Chimba, Deo; Moses, Ren
Paper #10-1577
Subject(s): Safety; Trucking
Session 572

McCaill, Christopher; Garrick, Norman
Paper #10-3768
Subject(s): Transportation Policy; AICP Certification
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Influence of Piston Friction on Resilient Modulus of Subgrade Soil
Yang, Shu-Rong
Paper #10-0198
Subject(s): Geology and Earth Materials; Soil Mechanics
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Influence of Platform Height, Door Width, and Fare Collection on Bus Dwell Time: Laboratory Evidence for Santiago De Chile
Fernandez, Rodrigo; Zegers, Pablo; Weber, Gustavo; Tyler, Nick
Paper #10-0319
Subject(s): Management and Leadership; Systems Planning, Policy, and Process; Public Transportation and Ferries
Session 669

Influence of Psychological Factors and Beliefs on Acceptance of Coercive Policies
Schmocker, Jan-Dirk; Pettersson, Pierre; Fujii, Satoshi
Paper #10-1471
Subject(s): Travel Analysis Methods; AICP Certification
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Influence of Reclaimed Asphalt Pavement on Surface Friction
Kowalski, Karol; McDaniel, Rebecca; Olek, Jan
Paper #10-0434
Subject(s): Bituminous Materials; Pavement Management
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Influence of Signal Phasing Sequence and Intersection Spacing on Progression Bandwidth
Zhao, Yi; Tian, Zong
Paper #10-1461
Subject(s): Operations
Session 629

Influence of Structural Analysis Method on Culvert Load Rating
Wood, Timothy; Lawson, William; Newhouse, Charles;

Jayawickrama, Priyantha
Paper #10-3436
Subject(s): Design; Structures
Session 654

Influential Factors on Level of Injury in Pedestrian Crashes: Applications of Ordered Probit Model with Robust Standard Errors
Jang, Kitae; Park, Shin Hyoung; Chung, Sungbong; Song, Ki Han
Paper #10-2817
Subject(s): Pedestrians and Cycles; Safety
Session 323

Information Infrastructure for Research Collaboration in Land Use, Transportation, and Environmental Planning
Ferreira, Joseph; Diao, Mi; Zhu, Yi; Li, Weifeng; Jiang, Shan
Paper #10-2674
Subject(s): Data and Information Systems
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Information Management Approach for Pavement Condition Data Integrity Quality Assurance
Ong, Ghim Ping; Noureldin, A. Samy; Sinha, Kumaar
Paper #10-0493
Subject(s): Pavement Management
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Infrastructure, Programs, and Policies to Increase Bicycling: International Review
Pucher, John; Dill, Jennifer; Handy, Susan
Paper #10-0824
Subject(s): Design; Pedestrians and Cycles; Safety
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Injury Severity of Multivehicle Crash in Rainy Weather
Jung, Soyoung; Qin, Xiao; Noyce, David
Paper #10-4056
Subject(s): Data and Information Systems; Safety
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Innovation and Stakeholder Collaboration in West Coast Gateways: Analysis of Seaport and Freight Movement Industries
Woudsma, Clarence; Hall, Peter; O'Brien, Thomas
Paper #10-1862
Subject(s): Freight Systems; Marine; Operations
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Innovative Contracting Strategies for Transportation Maintenance Outsourcing
Menches, Cindy; Chen, Juan; Khwaja, Nabeel
Paper #10-0492
Subject(s): Maintenance; Management and Leadership; Operations
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Innovative Public Engagement Tools in Transportation Planning: Applications and Outcomes
Mazzella, Tony
Paper #10-2659
Subject(s): Systems Planning, Policy, and Process; Social, Economic, and Cultural Issues
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Innovative Soft Soil Stabilization Using Simultaneous High-
Vacuum Dewatering and Dynamic Compaction
Chang, Dave Ta-The; Lou, Xiao-Ming; Xu, Shi-long; Wang, Jen-Chin
Paper #10-1506
Subject(s): Pavement Management; Soil Mechanics
Session 537

In-Place Hot-Mix Asphalt Density Estimation Using Ground-Penetrating Radar
Al-Qadi, Imad; Leng, Zhen; Lahouar, Samer; Baek, Jongeun
Paper #10-1735
Subject(s): Bituminous Materials; Construction
Session 500

In-Service Shear and Moment Girder Distribution Factors in Simple Span Prestressed Concrete Girder Bridge Measured with Built-In Optical Fiber Sensor System
Idriss, Rola; Liang, Zhiyong
Paper #10-3379
Subject(s): Structures
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Insight Into Longer Combination Vehicle Operations Within the United States
Conway, Alison; Prozzi, Jolanda; Walton, C.; Evans, Daniel
Paper #10-3493
Subject(s): Freight Systems; Trucking
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Insight Into Steering Adaptation Patterns in Driving Simulators
Sahami, Saeed; Sayed, Tarek
Paper #10-3575
Subject(s): Safety; Users
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Insights on Freeway Travel Time Estimation Methods Based on Punctual Speed Measurements
Soriguera, Francesc; Robusté, Francesc
Paper #10-3059
Subject(s): Data and Information Systems
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Inspection of Voids in External Posttensioned Tendons
Im, Seok Been; Hurlebaus, Stefan; Trejo, David
Paper #10-0407
Subject(s): Structures
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Institutional Challenges in Development of Intelligent Transportation Systems: Route 1 Corridor in the National Capital Region
Zhou, Xin; Gifford, Jonathan
Paper #10-2889
Subject(s): Operations; Systems Planning, Policy, and Process
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Instrumentation Plan for Monitoring the New I-10 Twin Span Bridge
Abu-Farsakh, Murad; Yoon, Sungmin; Ha, Da; Marr, W.; Zhang, Zhongjie; Tsai, Ching; D'Andrea, Arthur
Paper #10-1564
Subject(s): Soil Mechanics; Structures
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Instrumentation, Modeling, and Monitoring of a Concrete Bridge from Construction Through Service
Bell, Erin; Sipple, Jesse; Lefebvre, Paul; Phelps, John; Brenner, Brian; Sanayei, Masoud
Paper #10-1861
Subject(s): Structures
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Integral Abutment Bridge Monitoring Program in Vermont
Civjan, Scott; Kalayci, Emre; Brena, Sergio; Allen, Chad
Paper #10-2510
Subject(s): Structures
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Integrated Adaptive Traffic Signal Control with Real-Time Decision Support
Xin, Wuping; Chang, Jinil; Bertoli, Bryan; Talas, Mohamad
Paper #10-3511
Subject(s): Operations
Session 629

Integrated Approach to Sustainable Transportation, Land Use, and Building Design: Case of Luokou District, Jinan, China
Duduta, Nicolae; Shirgaokar, Manish; Deakin, Elizabeth; Zhang, Xinlan
Paper #10-1806
Subject(s): Systems Planning, Policy, and Process; Public Transportation and Ferries; International Activities
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Integrated Bilevel Model to Explore Interaction Between Land Use Allocation and Transportation
Zhao, Liyuan; Peng, Zhong-Ren
Paper #10-4057
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Integrated Framework for Modeling Launching Girder Bridges
Marzouk, Mohamed
Paper #10-1985
Subject(s): Construction; Structures
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Integrated Map Matching Algorithm for GPS-Based Freeway Network Traffic Monitoring
Wang, Wei; Jin, Jing; Ran, Bin; Guo, Xiucheng
Paper #10-1676
Subject(s): Data and Information Systems
Session 635

Integrated Remote-Sensing and Visualization Bridge Management System
Chen, Shen; Wang, Xiaoyu; Vatcha, Rashna; Dou, Wenwen; Lee, Seok-Won; Chang, Remco; Hauser, Edd; Tolone, William; Ribarsky, William
Paper #10-3632
Subject(s): Maintenance; Structures; Infrastructure Preservation
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Integrating Activity-Based Travel Demand Model with Dynamic Traffic Assignment and Emission Models: Implementation in Greater Toronto Area
Hatzopoulou, Marianne; Miller, Eric; Hao, Jiang
Paper #10-1341
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Integrating Bicycling and Public Transport in North America
Pucher, John; Buehler, Ralph
Paper #10-0797
Subject(s): Management and Leadership; Systems Planning, Policy, and Process; Public Transportation and Ferries; AICP Certification Maintenance Session
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Integrating Numerical and Physical Models for BMPs Loaded by Highway and Bridge Runoff
Pathapati, Subbu-Srikanth; Sansalone, John
Paper #10-2506
Subject(s): Design; Environment
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Integrating the Impact of Rain Into Traffic Management: Online Traffic State Estimation Using Sequential Monte Carlo Techniques
Billot, Romain; El Faouzi, Nour-Eddin; Sau, Jacques; De Vuyst, Florian
Paper #10-0955
Subject(s): Data and Information Systems; Operations; Safety; Investing in Our Transportation Future – BOLD Ideas to Meet Big Challenges
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Integrating Traffic Simulation Into Design Visualization: A Case Study
Wei, Ting; Jarboe, Paul
Paper #10-0620
Subject(s): Data and Information Systems; Design; Safety
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Integration of Computer Imaging and Sensor Networks for Structural Health Monitoring: Case Study for Load Rating
Zaurin, Ricardo; Catbas, F. Necati
Paper #10-2421
Subject(s): Structures
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Integration of GPS-Enabled Mobile Phones and AVL: Personalized Real-Time Transit Navigation Information on Your Phone
Barbeau, Sean; Georggi, Nevine; Winters, Philip
Paper #10-2571
Subject(s): Public Transportation and Ferries; Users; Transportation Policy; AICP Certification Maintenance Session
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Integration of MEPDG Distresses with Local Performance Indices
Schram, Scott; Abdelrahman, Magdy
Paper #10-2272
Subject(s): Pavement Management
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Integration of Mobility Management and Land Use Planning in Selected European Countries: Results from Cross-National Comparisons and Local Planning Simulation Workshops
Plevnik, Aljaz
Paper #10-2248
Subject(s): Transportation Policy
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Intelligent Intersection Traffic Flow Prediction Based on Fuzzy Neural Network
Zhang, Yunlong; Ge, Hancheng
Paper #10-2780
Subject(s): Data and Information Systems
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Interaction Between System Design and Operations in Work-Zone Variable Speed Limit Systems
Fudala, Nicholas; Fontaine, Michael
Paper #10-0975
Subject(s): Maintenance; Operations; Safety
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Interlaboratory Study on Measuring Coefficient of Thermal Expansion of Concrete
Crawford, Gary; Gudimettla, Jagan; Tanesi, Jussara
Paper #10-2068
Subject(s): Concrete Materials
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Intermodal Transfer Between Bicycles and Rail Transit in Shanghai, China
Pan, Haixiao; Shen, Qing; Song, Xue
Paper #10-1863
Subject(s): Pedestrians and Cycles; Public Transportation and Ferries; Users; AICP Certification Maintenance Session
Session 661

International Comparison of Truck Crashes Using Different National Databases
Cafiso, Salvatore; Di Graziano, Alessandro; Pappalardo, Giuseppina
Paper #10-2244
Subject(s): Safety; International Activities; AICP Certification Maintenance Session
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Internet Access: Is Everyone Online Yet and Can We Survey Them There?
Smith, Colin; Spitz, Gregory
Paper #10-2821
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Internet Data Mining for Highway Transportation Success Stories
Wilson, Daniel; Chin, Charles
Paper #10-3480
Subject(s): Data and Information Systems; Management and Leadership; Operations
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Interpersonal Influence Within Car Buyers’ Social Networks: Five Perspectives on Plug-In Hybrid Electric Vehicle Demonstration Participants
Axsen, Jonn; Kurani, Kenneth
Paper #10-0252
Subject(s): Travel Analysis Methods; AICP Certification
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Interpretation of Shakedown Limit from Multistage
Permanent Deformation Tests
Song, Yonghui; Ooi, Phillip
Paper #10-1464
Subject(s): Geology and Earth Materials; Soil Mechanics
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Interpretation of Soil Classification from CPTU Data in
Recent Clay Deposits in Jiangsu Province of China
Cai, Guojun; Liu, Songyu; Puppala, Anand; Tong, Liyuan
Paper #10-2600
Subject(s): Geology and Earth Materials; Soil Mechanics
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Intersection Turning-Movement Estimation Procedure
Based on Path Flow Estimator
Chen, Anthony; Chootinan, Piya; Ryu, Seungkyu; Lee, Ming; Recker, Will
Paper #10-2802
Subject(s): Travel Analysis Methods; AICP Certification
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Intra-Industry Trade Analysis of American State–Canadian
Province Pairs: Implications for Cost of Border Delay
Kristjansson, Kristjan; Bomba, Michael; Goodchild, Anne
Paper #10-2751
Subject(s): Data and Information Systems; Freight Systems;
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Investigation and Implications of MSE Wall Corrosion in
Nevada
Thornley, John; Siddharthan, Raj; Luke, Barbara; Salazar, John
Paper #10-0480
Subject(s): Pavement Management
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Investigation of Convergence and Accuracy Properties of
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Problem Under Capacity Uncertainty
Li, Jian; Ozbay, Kaan
Paper #10-3504
Subject(s): Data and Information Systems; Research and
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Joint Sealing and Reflection Crack Prevention for Bonded Whitetopping
Vandenbossche, Julie
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Klein, Nicholas
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Laboratory Determination of Maximum Theoretical Specific Gravity for Roller-Compacted Concrete
Williams, Stacy; McGraw, Anna
Paper #10-2535

Laboratory Evaluation of Latex-Modified Pervious Concrete
Wu, Hao; Huang, Baoshan; Shu, Xiang; Dong, Qiao; Shrum, Emily; Jared, David; Wu, Peter
Paper #10-3128

Laboratory Evaluation of New Test Procedure for Measuring Flexural Strength of Base Binders
Jayawickrama, Priyantha; Merrick, Michael; Senadheera, Sanjaya
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Laboratory Investigation of Premature Cracking in Precast Concrete Members in Texas
Naranjo, Andy; Barborak, Ryan; Morgan, Edward
Paper #10-2558

Laboratory Mechanistic Characterization of Granular Base Stabilization Systems in Saskatchewan
Xu, Jing; Berthelot, Curtis
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Laboratory Method for Inertial Profiler Verification
Lee, Mei-Hui; Chou, Chia-Pei
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Lagos BRT-Lite: Africa’s First Bus Rapid Transit System
Kaenzig, Robin; Brader, Colin; Mobereola, Dayo
Paper #10-2934

Lane Flow Distributions on Basic Segments of Freeways Under Different Traffic Conditions
Lee, Jaesup; Park, Byungkyu (Brian)
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Lane-Level Vehicle Positioning with Low-Cost GPS
He, Qing; Head, Larry
Paper #10-2458

Latent Bicycle Commuting Demand and the Effects of Gender on Commuter Cycling and Accident Rates
Twaddle, Heather; Hall, Fred; Bracic, Blanka
Paper #10-0676

Latent Bicycle Commuting Demand and the Effects of Gender on Commuter Cycling and Accident Rates
Twaddle, Heather; Hall, Fred; Bracic, Blanka
Paper #10-0676
Subject(s): Design; Pedestrians and Cycles; Safety
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Lateral Pressures Behind Retaining Walls Backfilled with Tire-Derived Aggregate
Helstrom, Christopher; Humphrey, Dana; Weaver, James
Paper #10-4012
Subject(s): Geology and Earth Materials; Soil Mechanics
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Leaching Characteristics of Fly Ash, Recycled Asphalt, and Aggregate Mixtures
Kang, Dong; Gupta, Satish; Ranaivoson, Andry; Roberson, Ruth; Siekmeier, John
Paper #10-2527
Subject(s): Bituminous Materials; Geology and Earth Materials; Soil Mechanics
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Lessons on Undertaking a Strategic Transport Project: Review at a National Level
Turnbull, Stuart; Anderson, David
Paper #10-0187
Subject(s): Management and Leadership
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Less-Than-Truckload Static Single-Carrier Collaboration Problem
Hernandez, Salvador; Peeta, Srinivas
Paper #10-2574
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Level of Service: 2010 and Beyond
Roess, Roger; Vandehey, Mark; Kittelson, Wayne
Paper #10-0649
Subject(s): Operations
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Level-Of-Service Model for Shared-Use Paths Adjacent to Roadways
Petritsch, Theodore; McLeod, Peyton; McLeod, Douglas; Landis, Bruce; Ozkul, Seckin
Paper #10-0990
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Levels of Overcrowding in Bus System of Dhaka, Bangladesh
Katz, Donald; Rahman, Md. Mizanur
Paper #10-1419
Subject(s): Management and Leadership; Systems Planning, Policy, and Process; Public Transportation and Ferries
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Leveraging GIS Technology and Web-Based Images: A Low-Cost Approach for Studying Congestion Hot Spots
Saka, Anthony
Paper #10-1561
Subject(s): Data and Information Systems
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Leveraging the Spiral Graph for Transportation System Data Visualization
VanDaniker, Michael
Load Rating Using Practical Analysis and Testing Method for Existing Reinforced-Concrete T-Beam Bridges
Catbas, F. Necati
Paper #10-2625
Subject(s): Structures
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Load Transfer Efficiencies of Rigid Airfield Pavement Joints Based on Stresses and Deflections
Wadkar, Ashish; Mehta, Yusuf; Guo, Hua; Norton, Alan; Tomlinson, Christopher; Cleary, Douglas
Paper #10-0914
Subject(s): Aviation
Session 436

Local Accessibility Versus Regional Mobility: Community Debates Fate of Arterial Reversible Lanes in Phoenix, Arizona
Golub, Aaron
Paper #10-2725
Subject(s): Systems Planning, Policy, and Process; Social, Economic, and Cultural Issues
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Local Calibration of MEPDG Rutting Model for MnROAD Test Sections
Hoegh, Kyle; Khazanovich, Lev; Jensen, Maureen
Paper #10-0710
Subject(s): Bituminous Materials; Pavement Management
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Practice-Ready Papers: Bituminous Materials; Pavement Management

Local Ramp Metering in the Presence of Random-Location Bottlenecks Downstream of Metered On-Ramp
Wang, Yibing; Papageorgiou, Markos; Gaffney, John; Papamichail, Ioannis; Rose, Geoffrey; Young, William
Paper #10-2476
Subject(s): Operations
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Local Rural Road Safety Audit Guidelines and Case Studies
Mahgoub, Hesham; Skorseth, Ken; Marshall, Ronald; Selim, Ali
Paper #10-2874
Subject(s): Safety
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Location and Pricing of Mass Transit Stations
de Palma, André; Kilani, Moez; Proost, Stef
Paper #10-2291
Subject(s): Public Transportation and Ferries; Rail
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Location Choice Model for Logistic Firms with Consideration of Spatial Effects
Nguyen, Y; Sano, Kazushi
Paper #10-3924
Subject(s): Freight Systems; Travel Analysis Methods; AICP Certification Maintenance Session
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Location Planning for Multiple Urban Transit Hubs: Multicriterion Approach and Case Study in China
Yu, Jie; Liu, Yue; Chang, Gang-Len; Ma, Wanjing; Yang, Xiaoguang
Paper #10-2947
Subject(s): Operations; Public Transportation and Ferries; Users
Session 518

Locomotive Routing and Scheduling Problem with Fuzzy Time Windows
Ghoseiri, Keivan; Ghannadpour, Seyed Farid; Seifi, Abouzar
Paper #10-2592
Subject(s): Freight Systems
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Logistic Models in Crash Severity Classification on the Basis of Chosen Road Characteristics
Marzena, Nowakowska
Paper #10-0189
Subject(s): Data and Information Systems; Safety
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Logistics Modeling in Large-Scale Disaster Relief Operations
Afshar, Abbas Mohasel; Haghani, Ali
Paper #10-3557
Subject(s): Freight Systems
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Long-Distance Travel in Europe Today: Experiences with a New Survey
Frei, Andreas; Kuhnimhof, Tobias; Axhausen, Kay
Paper #10-2031
Subject(s): Data and Information Systems
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Longitudinal Employer-Household Dynamics as Source for Journey-To-Work Flow Data
Viswanathan, Krishnan; McWethy, Laura; Tierney, Kevin
Paper #10-3100
Subject(s): Data and Information Systems
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Longitudinal Joint Data Collection Efforts in Virginia Between 2005 and 2009
Appea, Alexander; Clark, Trenton
Paper #10-1669
Subject(s): Pavement Management
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Long-Term Field Monitoring of Four Integral Abutment Bridges
Kim, WooSeok; Laman, Jeffrey
Paper #10-0810
Subject(s): Structures
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Long-Term Performance Evaluation of Recycled Asphalt Pavement Based on Texas LTPP SPS5 Sections
Hong, Feng; Chen, Dar-Hao; Mikhail, Magdy
Paper #10-3085
Subject(s): Bituminous Materials; Construction
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Long-Term Performance of Dowel Bar Retrofit in Washington State
Pierce, Linda; Muench, Stephen; Mahoney, Joe
Paper #10-2604
Subject(s): Pavement Management
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Long-Term Safety Impact of Median Barriers at Highway-Railroad Grade Crossings
Luo, Zheng; Khattak, Aemal; Gao, Miao
Paper #10-3893
Subject(s): Operations
Session 602
Practice-Ready Papers: Operations

Low-Cost Vehicle Detection Based on Simple Light Sensing
Miller, Gregory; Farrar, Genevieve; Wang, Yinhai; Mackenzie-Helnwein, Peter
Paper #10-2705
Subject(s): Data and Information Systems
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Low-Profile Barrier with TL-3 Modification
Klam, Jeremy; Ivey, Don; Menges, Wanda
Paper #10-2303
Subject(s): Design; Safety
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Lung Deposition of Jet Engine Exhaust Particulate Matter
Black, Elizabeth
Paper # P10-0687
Subject(s): Aviation
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Lysimeter Study to Evaluate Leaching Properties of Treated and Untreated Bottom-Ash Waste in Road Foundations
Ahmed, Abdelkader; Khalid, Hussain
Paper #10-0655
Subject(s): Bituminous Materials; Geology and Earth Materials; Soil Mechanics
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Macropus System of Guadalajara, Mexico: An Evolved Concept in BRT Planning and Implementation for Medium-Capacity Corridors
Hidalgo, Dario; Voukas, Yorgos; Freiberg, German; Lopez, Amilcar; Alveano, Saul
Paper #10-2043
Subject(s): Pedestrians and Cycles; Public Transportation and Ferries; International Activities
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Macroeconomic Effects of Road Corridor Investment in Kazakhstan: A General Equilibrium Perspective
Norojono, Olly
Paper #10-1839
Subject(s): Data and Information Systems; Freight Systems; Marine
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Macro-Effect of Microcracks on Sonic Surface Wave Velocity in Concrete Under Compression
Shokouhi, Parisa; Zoege, Andreas; Wiggenhauser, Herbert; Fischer, Gregor
Paper #10-2329
Subject(s): Concrete Materials
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Macroscopic Characteristics of Lane-Changing Traffic
Jin, Wen-Long
Paper #10-1065
Subject(s): Operations
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Macroscopic Fundamental Diagram: Investigating Its Shape Using Simulation Data
Ji, Yangbeibei; Daamen, Winnie; Hoogendoorn, Serge; Hoogendoorn-Lanser, Sascha; Qian, Xiaoyu
Paper #10-3098
Subject(s): Operations
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Macroscopic Fundamental Diagrams for Pedestrian Networks
Hoogendoorn, Serge; Campanella, Mario; Daamen, Winnie
Paper #10-1974
Subject(s): Operations; Pedestrians and Cycles; Safety
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Macroscopic Greenhouse-Gases Emissions Model of Urban Transportation for Municipalities
Derrilbe, Sybil; Saneinejad, Sheyda; Sugar, Lorraine; Kennedy, Christopher
Paper #10-0708
Subject(s): Environment; Energy and Climate Change
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Macroscopic Tool for Measuring Delay Performance in National Airspace System
Zhang, Yu; Nayak, Nagesh
Paper #10-2796
Subject(s): Aviation; Investing in Our Transportation Future – BOLD Ideas to Meet BIG Challenges
Session 660
Macroscopic Simulation of Operations at Public Transport Corridors
Fernandez, Rodrigo; Valencia, Alejandra
Paper #10-0218
Subject(s): Operations; Systems Planning, Policy, and Process; Public Transportation and Ferries
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Making Congestion Pricing Equitable
Light, Thomas; Ecola, Liisa
Paper #10-3143
Subject(s): Social, Economic, and Cultural Issues; Transportation Policy; Taxation and Finance; AICP Certification Maintenance Session
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Making Montreal's Indoor City Accessible for People with Disabilities
Hagg, Matthew; El-Geneidy, Ahmed
Paper #10-1717
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Operational Effects of Diverging Diamond Interchange
Chlewicki, Gilbert
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Day, Christopher; Premachandra, Hiromal; Brennan, Thomas; Sturdevant, James; Bullock, Darcy
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Operationalizing Place Making in a Choice Experiment Context
Lownes, Nicholas; Yannes, Craig; Garrick, Norman; Johnston, Robert
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Yagi, Sadayuki; Nagayama, Katsuhide
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Hubbard, Bryan; Hubbard, Sarah
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Park, Byungkyu (Brian); Chen, Yin; Hourdos, John
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Ulusoy, Yavuz; Chien, Steven
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Optimal Control Strategies for Massive Vehicular Pedestrian Mixed Flows in the Evacuation Zone
Zhang, Xin; Chang, Gang-Len
Paper #10-3148
Subject(s): Operations; Safety; Security
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Optimal Distribution of Rolling Coverage in Multiple Chip Seals
Lee, Jaejun; Kim, Y. Richard
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Optimal Locomotive Fueling Schedule and Location in Railroad Networks
Nourbakhsh, Seyed; Ouyang, Yanfeng
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Optimal Refueling Station Location and Supply Planning for Hurricane Evacuation
Gao, Yang; Chiu, Yi-Chang; Wang, Shuo; Küçükyavuz, Simge
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Optimal Selection of Bus Stops for Accessibility and Mobility Improvements for Riders with Disabilities
Wu, Wanyang; Gan, Albert; Cevallos, Fabian; Shen, David
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Ye, Jianhong; Chen, Xiaohong
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Kim, Kitae; Chien, Steven
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Ng, ManWo; Gao, Lu; Waller, S. Travis
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Abdelgawad, Hossam; Abdulhai, Baher; Wahba, Mohamed
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Lai, Xiaorang; Schonfeld, Paul
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Lai, Yung-Cheng; Dingler, Mark; Hsu, Chung-En; Chiang, Pei-Chun
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Gautam, Biraj; Nazarian, Soheil; Yuan, Deren
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Lu, George (Xiaozhao); Chitturi, Madhav; Ooms, Andrew;
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Subject(s): Data and Information Systems; Safety
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Pedroso, Frederico; Dantas, Andre; Seville, Erica;
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Blum, Jeremy; Sridhar, Anoop; Mathew, Tom
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Torbic, Darren; Harwood, Douglas; Bokenkroger, Courtney; Srinivasan, Raghavan; Carter, Daniel; Zegeer, Charles; Lyon, Craig
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Shrestha, Deepak; Lovell, David
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Dhatrak, Amit; Edara, Praveen; Bared, Joe
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Performance Evaluation of Cold In-Place Recycling Mixtures Using Emulsified Asphalt Based on Dynamic Modulus, Flow Number, Flow Time, and Raveling Loss
Kim, Yongjoo; Lee, Hosin
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Cox, Brady; McCartney, John; Wood, Clint; Curry, Brandon
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Performance Measurement Frameworks and Development of Effective Sustainable Transport Strategies and Indicators
Pei, Yi Lin; Amekudzi, Adjo; Meyer, Michael; Barella, Elise; Ross, Catherine
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Sanders, Rebecca; Macdonald, Elizabeth; Anderson, Alia
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Ma, Xiang
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Koch, Scott
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Carvalho, Regis; Shirazi, Hamid; Ayres, Manuel; Seleznева, Olga
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Gransberg, Douglas; Scheepbouwer, Eric
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Roberts, Lance; Misra, Anil
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Leurent, Fabien; Askoura, Youcef
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Turos, Mugurel; Moon, Ki Hoon; Marasteanu, Mihai
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Planning Implementation of 3D Technologies for Design And Construction at Wisconsin Department of Transportation
Vonderohe, Alan; Zogg, Jerry; Whited, Gary; Brockman, Kenneth
Paper #10-2350
Subject(s): Construction; Design; Management and Leadership
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Planning-Level Cost Estimation: Georgia Department of Transportation's Innovative Processes and Procedures
Carroll, Jeff; Cox, Dave
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Plug-In Hybrid Consumer Choice Model with Detailed Market Segmentation
Lin, Zhenhong; Greene, David
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Smick, Anthony; Guo, Jessica; Mallette, Megan; Getter, Chris; Venkataramanan, Giri
Paper #10-3596
Subject(s): Environment; Energy and Climate Change; Investing in Our Transportation Future – BOLD Ideas to Meet BIG Challenges
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Axsen, Jonn; Kurani, Kenneth
Paper #10-1007
Subject(s): Transportation Policy; Environment; Energy and Climate Change; Investing in Our Transportation Future – BOLD Ideas to Meet BIG Challenges
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Grether, Dominik; Kickhöfer, Benjamin; Nagel, Kai
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Sung, Hyungon; Choo, Sangho
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Mesbah, Mahmoud; Sarvi, Majid; Currie, Graham; Saffarzadeh, Mahmoud
Paper #10-1832
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Fee, Darrell; Maldonado, Rene; Reinke, Gerald; Romagosa, Enrique
Paper #10-2409
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Ryan, Justin; Maoh, Hanna; Kanaroglou, Pavlos
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McCain, George; Dewoolkar, Mandar
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Hsu, Chia-Jui; Chang, Yu-Chun
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Ahmed, Mahmoud; Haas, Carl
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Bertoli, Bryan; Wojtowicz, Jeffrey; Wallace, William
Paper #10-1845
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Farhan, Muhammad; Stevanovic, Aleksandar; Martin, Peter
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Vasquez, Cristian; Heaslip, Kevin; Louisell, William
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Bonneson, James; Pratt, Michael; Vandehey, Mark
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Xia, Jingxin; Chen, Mei; Qian, Zhendong
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Zhang, Zhanmin; Gao, Lu
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Twala, Bhekisipho
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Barrash, Joseph; Stillman, Ashley; Anderson, Steven; Dawson, Jeffrey; Rizzo, Matthew
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Ongel, Aybike; Harvey, John
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Prediction of Longitudinal Cracking in Rigid Pavements Under Various Environmental Conditions Using RadiCAL Signore, James; Hiller, Jacob; Kannekati, Venkata; Basheer, Imad; Harvey, John
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Tsai, Fang-Ling; Lytton, Robert; Lee, Sang Ick
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Subject(s): Pavement Management
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Meegoda, Jay; Gao, Shengyan; Gephart, Nicholas
Paper #10-3067
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Ayala, Roberto; You, Soyoung; Saphores, Jean-Daniel; Ritchie, Stephen; Lee, Gunwoo; Sangkapichai, Mana
Paper #10-4110
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Jones, David
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Subject(s): Bituminous Materials; Environment
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Dong, Zejiao; Tan, Yiqiu; Cao, Liping; Liu, Hao
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Lowson, Martin
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Yut, Iliya; Nener-Plante, Derek; Zofka, Adam
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Marasteanu, Mihai; Teshale, Eyoab Zegeye; Moon, Ki Hoon; Turos, Mugurel
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Kelleher, Luke; Smyth, Austin
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McFalls, Jett; Desai, Aditya Raut; Foster, Derrold; Li, Ming-Han
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Subject(s): Geology and Earth Materials; Environment
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Buckholz, Jeffrey
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Rajbhandari, Rajat; Villa, Juan; Aldrete, Rafael
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Saka, Anthony
Paper #10-2839
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Nie, Yu; Wu, Xing; Nelson, Peter; Dillenburg, John
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Hadas, Yuval; Ceder, Avishai
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Benenson, Itzhak; Martens, Karel; Rofé, Yodan; Kwartler, Ariela
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Blackman, Ross; Haworth, Narelle
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Bolet, Lars; Fonnesbech, Jens
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Fischer, Jamie; Amekudzi, Adjo
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Figliozzi, Miguel; Melgoza, Rolando; Ruelas, David; Chang, Heejun; Lafrenz, Martin; Platman, Deena; Pederson, Cindy
Paper #10-4112
Subject(s): Freight Systems; Structures; Security; AICP Certification Maintenance Session
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Sun, Xiaoduan; Hu, Han; Habib, Emad; Magri, Daniel
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Mishra, Debakanta; Tutumluer, Erol; Butt, Abbas
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Public Transportation and Private Car: GIS-Based Estimation of Accessibility Applied to Tel Aviv Metropolitan Area in Israel
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Shahdah, Usama; Fu, Liping
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Wasson, Jay; Haseman, Ross; Bullock, Darcy
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Paper #10-0834
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Wang, Haizhong; Li, Jia; Chen, Qianyong; Ni, Daiheng
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Nair, Rahul; Avetisyan, Hakob; Miller-Hooks, Elise
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Solanki, Pranshoo; Zaman, Musharraf; Dean, Jeff
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Cary, Carlos; Zapata, Claudia
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Cutler, Heath; Wang, Kejin; Schaefer, Vernon; Kevern, John
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Fricker, Jon; Ford, Kevin
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Frey, H. Christopher; Rasdorf; William; Lewis, Phil
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Bejleri, Ilir; Carrick, Grady; Wingfield, Nathaniel
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Subject(s): Freight Systems; Structures; Security; AICP Certification
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Hanz, Andrew; Arega, Zelalem; Bahia, Hussain
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San Santoso, Djoen; Joewono, Tri Basuki
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Nathanail, Efthia; Zaharis, Stratis; Vagiokas, Nikolaos; Prevedouros, Panos
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Ismail, Karim; Sayed, Tarek
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Kar, Kohinoor; Blankenship, Michael
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Wang, Xin; Khattak, Asad
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Robinson, Robert; Khattak, Asad
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Bektas, Fatih; Taylor, Peter; Wang, Kejin
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Wang, Haizhong; Andrews, Steven; Ni, Daiheng; Collura, John
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Sentoff, Karen; Robinson, Mitchell; Holmen, Britt
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Pekcan, Gokhan; Itani, Ahmad; Monzon, Eric
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Furth, Peter; Cesme, Burak; Rima, Tarannum
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Ma, Wanjing; Pu, Wenjing; Liu, Yue; Yang, Xiaoguang
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Zhu, Lin; Yu, Lei; Zhang, Yu; Chen, Xumei; Guo, Jifu; Sun, Mingzheng
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Mei, Bing; Hu, Hyejung; Rouphail, Nagui; Lee, Jae-Joon
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Folkman, Steven; Moser, Alma; Fronk, Thomas
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Chandra, Shallesh; Shen, Chung-Wei; Quadrifoglio, Luca
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Hadi, Mohammed; Shen, Luou; Li, Jianguo; Xiao, Yan; Dong, Chen
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Li, Pengfei; Abbas, Montasir; Pasupathy, Raghu; Head, Larry
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Alston, Michael; Rouphail, Nagui; Schroeder, Bastian; Hummer, Joseph
Paper #10-1271
Subject(s): Design; Operations; Safety
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Molino, John; Katz, Bryan; Hermosillo, Megan
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Subject(s): Design; Safety; Trucking
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Allen, R.
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Etienne, Virginie; Marin-Lamellet, Claude; Paire-Ficout, Laurence
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Zhu, Hong; Dixon, Karen; Washington, Simon; Jared, David
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Subject(s): Public Transportation and Ferries; Users; Transportation Policy; AICP Certification Maintenance Session
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When Technology Tells Novice Drivers How to Drive
Musicant, Oren; Lampel, Liat
Paper #10-1489
Subject(s): Safety
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Whom to Hang Out with and Why: Influence of Social Ties on Social and Recreational Activity Participation and Travel of Various Ethnic Groups in the Netherlands
Ettema, Dick; Kwan, Mei-Po
Paper #10-1610
Subject(s): Travel Analysis Methods
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Why Not Use Rejuvenator for 100% RAP Recycling?
Mallick, Rajib; O'Sullivan, Karen; Tao, Mingjiang; Frank, Robert
Paper #10-1838
Subject(s): Bituminous Materials; Construction
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Why Retailers Cluster: Agent Model of Location Choice on Supply Chains
Huang, Arthur; Levinson, David
Paper #10-2503

Subject(s): Systems Planning, Policy, and Process; Travel Analysis Methods; Transportation Policy
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Will It Work? Pilot Results from First Large-Scale GPS-Based Household Travel Survey in the United States
Giaimo, Gregory; Wargelin, Laurie; Anderson, Rebekah; Stopher, Peter
Paper #10-3776
Subject(s): Travel Analysis Methods; AICP Certification Maintenance Session
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Wireless Interface Signal Control System for Dynamic and Optimal Management
Moon, Young-Jun; Jung, Sungdae; Lee, Sang-sun
Paper #10-1582
Subject(s): Operations
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Work Zone Capacity Estimation: An Analytical Review
Kayani, Wasim; Bham, Ghulam
Paper #10-4041
Subject(s): Maintenance; Operations; Safety
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Work-Zone Queue Length and Delay Methodology
Chitturi, Madhav; Benekohal, Rahim
Paper #10-0112
Subject(s): Maintenance; Operations; Safety
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