

13th COTA International Conference of Transportation Professionals

(CICTP 2013)

Intelligent and Integrated Sustainable Multimodal Transportation Systems

Procedia Social and Behavioral Sciences Volume 96

**Shenzhen, China
13-16 August 2013**

Part 1 of 4

Editors:

**Lei Zhang
Heng Wei
Yi Zhang**

**Zhiheng Li
Meng Li**

ISBN: 978-1-63439-591-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by Elsevier B.V.
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact Elsevier B.V.
at the address below.

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

RCTV 1

Preface	1
<i>CICTP 2013</i>	
Effectiveness of Traffic Sign Setting in Adjacent Tunnel Exit	5
<i>Yan Bin, Zhou Ji-biao, Wang Lu</i>	
Stress State of Driver: Mobile Phone Use While Driving	12
<i>Ying Chen</i>	
Simulation of Pedestrian Flow based on Multi-agent	17
<i>Weiping Tong, Lin Cheng</i>	
Research on Driving Risk Model of Freeway Interchange Entrance Area for Accident Prevention	25
<i>Li Xin-wei, Wang Xiao-fei, Fu Xin-sha</i>	
Gradation Evaluation of Asphalt Rubber Mixture with Warm-mix Additive	31
<i>Yi Wang, Jingwen Zhu, Liping Liu, Lijun Sun</i>	
Sensitivity Analysis for Link Capacity based on Elastic Demand Equilibrium with Queuing	39
<i>Yi Zhao, Jian Lu, Jian Wang</i>	
Evaluation of Hidden Danger of Diseases for Embankment during Operation Time	53
<i>Jianming Ling, Nan Chen</i>	
Driving Simulation Study on Speed-change Lanes of the Multi-lane Freeway Interchange	60
<i>Zhongyin Guo, Haifeng Wan, Yi Zhao, Haocheng Wang, Zhenjiang Li</i>	
Rear-end and Lane-changing Collisions Avoidance Theoretical Models of the Multi-lane Freeway in Disaster Weather	70
<i>Haifeng Wan, Zhen Liu, Haocheng Wang</i>	
Assessing the Impact of Rainfall on Traffic Operation of Urban Road Network	82
<i>Feifei Xu, Zhaocheng He, Zhiren Sha, Lijian Zhuang, Wenbo Sun</i>	
Discussion on Influencing Factors of Free-flow Travel Time in Road Traffic Impedance Function	90
<i>Nan He, Shengchuan Zhao</i>	
Comparative Study on Crack and Factor of Continuously Reinforced Concrete Pavement in the Tunnel and Outside	98
<i>Jianwei Liu, Duijia Zhao, Junmin Shen, Yancong Zhang</i>	
Accelerated Pavement Testing in Chinese Mainland	104
<i>Ming Cai, Shuo Wang</i>	
An Empirical Study of Commuting Characteristics in Rural Areas	114
<i>Jun Yuan, Hangfei Lin</i>	
Development Trends and Characteristics of Devastating Accidents in China	123
<i>Jianjun Zhang</i>	
Existing Traffic Safety Problems of Expressways in China	130
<i>Jianjun Zhang</i>	
Forecast of Passenger and Freight Traffic Volume based on Elasticity Coefficient Method and Grey Model	136
<i>Youan Wang, Xumei Chen, Yanhui Han, Shuxia Guo</i>	
Evaluation of Public Transportation Operation based on Data Envelopment Analysis	148
<i>Jiabing Li, Xumei Chen, Xin Li, Xiucheng Guo</i>	
Evaluation Method for Highway Network's Resistant Ability Against Natural Disasters and the Conclusion Analysis	156
<i>Zhongyu Wang, Linbo Li, Jinshun Yang, Bing Wu</i>	
Research on Flexural Stiffness Reduction Factor of Reinforced Concrete Column with Equiaxial + Shaped Section	168
<i>Xiuling Feng, Meng Shen, Chao Sun, Jing Chen, Pengfei Luo</i>	
A Framework for Ongoing Performance Monitoring of Bus Lane System	175
<i>Feifei Xu, Yuchuan Du, Lijun Sun</i>	
Technical Methods of Comprehensive Transportation Plans in the Airport Economic Zone-taking Xiaogan Airport Economic Zone as a Case	182
<i>Li Yujin, Zhang Zhiyong</i>	
Key Indices Analysis of IEEE 802.11p based Vehicle to Infrastructure System in Highway Environment	188
<i>Shuai Chen, Wei Nai, Decun Dong, Wenyi Zheng, Weiping Jing</i>	
Experimental Study on Preventive Measures of Plastic Shrinkage Cracking of Cement Concrete	196
<i>Wang Yiran, Zhang Zhiqing, Li Juan, Yu Lei</i>	
Analysis of Intersection Accidents of Mountainous Highway	205
<i>Hongqi Liu</i>	

Model of Work Zone Capacity of Reconstructed Expressway	210
<i>Zhou Jian, Liu Qingxia, Zhong Liande, Xie Jun, Zhou Ronggui</i>	
The Importance of Resident's Attitude Towards Service Quality in Travel Choice of Public Transit	218
<i>Lin-na Zhao, Wei Wang, Xiao-jian Hu, Yan-jie Ji</i>	
Travel Behavior of the Urban Low-income in China: Case Study of Huzhou City	231
<i>Long Cheng, Xiaoying Bi, Xuewu Chen, Lei Li</i>	
Evaluating the Effects of Different Control Strategies on Traffic Operations at Isolated Merge Bottlenecks	243
<i>Hui Duan, Pan Liu, Zhibin Li, Liteng Zha</i>	
Exploring Impacts of Countdown Timers on Queue Discharge Characteristics of Through Movement at Signalized Intersections	255
<i>Sun Wenbo, He Zhaocheng, Xia Xi, Xu Feifei</i>	
The Study of Evacuation Passenger Service Level of Shanghai-Nanjing High-speed Railway Stations	265
<i>Xiangyu Chen, Yulin Chang</i>	
Saturation Flow Rate and Start-up Lost Time of Dual-left Lanes at Signalized Intersection in Rainy Weather Condition	270
<i>Hongyun Sun, Jinshun Yang, Ling Wang, Linbo Li, Bing Wu</i>	
Vulnerability Evaluation of the Highway Transportation System against Meteorological Disasters	280
<i>Jinshun Yang, Hongyun Sun, Ling Wang, Linbo Li, Bing Wu</i>	
Research on Dynamic Merge Control at Freeway Expanding Reconstruction Section	294
<i>Dewen Kong, Xiucheng Guo, Jia Hou</i>	
Study on the Mechanical Characteristic and Safety Measures of Bowl-scaffold	304
<i>Yongrui Chen, Laijun Liu, Yongcan Duan</i>	
Post-processing Procedures for Passive GPS based Travel Survey	310
<i>Jian Liu, Hongjiang Zheng, Tao Feng, Shuning Yuan, Hongyang Lu</i>	
Assistant Decision-making System for Road Safety Strategy	320
<i>Qing Yu, Zhongyin Guo, Zhizhong Zhang, Jinhui Wang</i>	
Modeling the Effects of Low-carbon Emission Constraints on Mode and Route Choices in Transportation Networks	329
<i>Xin Zhang, Pan Liu, Zhibin Li, Hao Yu</i>	
Research on Travel Time Distribution Characteristics of Expressways in Shanghai	339
<i>Li Weifeng, Duan Zhengyu, Guo Gaohua</i>	
The Model of Location for Single Allocation Multimodal Hub Under Capacity Constraints	351
<i>Gaobo Li, Dawei Hu, Luan Su</i>	
Research on the Cooperative Game Between Tourist Spot's Public Operational Vehicles and Private Operational Vehicles	360
<i>Luan Su, Dawei Hu</i>	
Highway Freight Terminal Facilities Allocation based on Flexsim	368
<i>Li-Hong Chen, Da-Wei Hu, Ting Xu</i>	
A Traffic Mode Choice Model for the Bus User Groups based on SP and RP Data	382
<i>Zhihu Zhang, Hongzhi Guan, Huanmei Qin, Yunqiang Xue</i>	
Decision-making Model of Roadside Safety Improvement on Two-lane Highway	390
<i>Yong Fang, Zhongyin Guo</i>	
Study on New Treatment Technology of Subgrade Thaw Collapse and Deformation in Qinghai-Tibet Highway	398
<i>Ming Li, Xi-lan Zhi, Chao Fang, Qiang Zhang</i>	
The Transportation Mode Distribution of Multimodal Transportation in Automotive Logistics	405
<i>Tao Zeng, Dawei Hu, Guolang Huang</i>	
Research and Application on Traffic Safety Education to Migrant Workers	418
<i>Haiyan Sun, Dongyuan Yang, Chuan Chen</i>	
Traffic Incident Duration Prediction based on Partial Least Squares Regression	425
<i>Xuanqiang Wang, Shuyan Chen, Wenchang Zheng</i>	
The Study of Differences in Public Acceptability Towards Urban Road Pricing	433
<i>Xiaoli Hao, Xianglong Sun, Jian Lu</i>	
Pedestrian Crossing Behavior at Unsignalized Mid-block Crosswalks Around the Primary School	442
<i>Pengfei Li, Yang Bian, Jian Rong, Lin Zhao, Shinan Shu</i>	
Finding Reliable Shortest Path in Stochastic Time-dependent Network	451
<i>Yiyong Pan, Lu Sun, Minli Ge</i>	
VISSIM-based Simulation Analysis on Road Network of CBD in Beijing, China	461
<i>Dong Lin, Xiaokuan Yang, Chao Gao</i>	
A Review of Yellow Dilemma Problem and a Dynamic Speed Guidance System Design based on CVIS	473
<i>Mozan Li, Linan Zhang, Xiaoguang Yang</i>	
Traffic State Evaluation based on Macroscopic Fundamental Diagram of Urban Road Network	480
<i>Feifei Xu, Zhaocheng He, Zhiren Sha, Wenbo Sun, Lijian Zhuang</i>	

Discrete Element Modeling of the Resilient Behavior of Subgrade Sandy Soils	490
<i>Xiao Zhang</i>	
Sustainable Development Evaluation of Urban Traffic System	496
<i>Yanying Xing, Hongyan Liang, Dongbin Xu</i>	
Simulation of Permanent Deformation of Unbound Granular Materials Under Repeated Loading by DEM	505
<i>Xiao Zhang</i>	
Modeling Commuters' Travel Behavior by Bayesian Networks	512
<i>Jingxian Wu, Min Yang</i>	
Study on Visiting Friends and Relatives Travel Behaviour of Immigrants in Shanghai	522
<i>Ying-xue Chen, Bing Wu, Lin-bo Li, Zhi Dong</i>	
Simulation-based Study on a Lane Assignment Approach for Freeway Weaving Section	528
<i>Wei Ni, Wanjing Ma</i>	
The Technology of Road Guide Signs Setting in Large Interchanges	538
<i>Xia Liu, Jian Lu</i>	
Research on Traffic Safety of Freeway Upgrade Section	548
<i>Rongrong Tian, Qiaojun Xiang, Sitao Hu</i>	
Study of Emission Reduction: Benefits of Urban Rail Transit	557
<i>Bin Shang, Xiaoning Zhang</i>	
Study of Urban Rail Transit Operation Costs	565
<i>Bin Shang, Xiaoning Zhang</i>	
The Operating Efficiency Evaluation of the Highway Network Under Accident Conditions	574
<i>Yanying Xing, Miaomiao Wang, Yongliang Li</i>	
Key Factors Analysis of Work Zone Safety and Mobility based on Micro-simulation	582
<i>Meng-hua Ding, Chi Zhang, Jiao Yan, James Tsai</i>	
The Study in Diamond Interchange Traffic Organization	591
<i>Shuxin Jin, Jianjun Wang, Jiannan Jiao</i>	
Input-output Analysis on the Contribution of Logistics Park Construction to Regional Economic Development	599
<i>Qian Dai, Jiaqi Yang</i>	
Study on the Status Evaluation of Urban Road Intersections Traffic Congestion Base on AHP-TOPSIS Modal	609
<i>Jingfei Yu, Li Wang, Xiuling Gong</i>	
Research on Rural Service Network Establishment of Express Company based on Bayesian Network Model	617
<i>Zeng Ting, Yang Jiaqi</i>	
Analysis of the Economic Benefit of the Inland River's Shipping Center	625
<i>Xi Chen, Huiyuan Jiang</i>	
Research on the Bi-level Programming Model for Ticket Fare Pricing of Urban Rail Transit based on Particle Swarm Optimization Algorithm	633
<i>Zhao Xueyu, Yang Jiaqi</i>	
A Novel Method of Trip Route Estimation based on Vehicle License Plate Recognition System	643
<i>Hong Chen, Xiangchun Xie, Yongbo Feng, Jibiao Zhou</i>	
An Improved K-nearest Neighbor Model for Short-term Traffic Flow Prediction	653
<i>Lun Zhang, Qiuchen Liu, Wenchen Yang, Nai Wei, Decun Dong</i>	
Prediction Model of Transport Sharing Rates of the Comprehensive Transportation Corridor	663
<i>Chen Hong, Zhang Bin, You Yue-sheng, Xie Xiang-chun</i>	
A Chance Constrained Programming Model for Reliable Emergency Vehicles Relocation Problem	671
<i>Yang Liu, Yun Yuan, Yu-hui Li, Hao Pang</i>	
Pedestrian Facilities Planning on Tianjin New Area Program	683
<i>Juan Li, Yuewen Gao, Huanhuan Yin</i>	
A Comparative Study of Public and Academic Attitudes to TDM Measures: Evidence from Nanjing	693
<i>Huihui Xiao, Jian Lu</i>	
Choosing the Mode for FDI Entry to China's Port Market based on Two-stage Game between the Foreign-funded Enterprises and Government	704
<i>Zhang Wenfen, Tu Min, Yang Jiaqi</i>	
The Study of Pedestrian Accessibility to Rail Transit Stations based on KLP Model	714
<i>Rongrong Yang, Hai Yan, Wen Xiong, Tao Liu</i>	
Cause Mechanism Study to Human Factors in Maritime Accidents: Towards a Complex System Brittleness Analysis Approach	723
<i>Haiyan Wang, Hui Jiang, Liang Yin</i>	
Design and Implementation of Freeway Infrastructure Safety and Emergency Management System	728
<i>Minli Ge, Lu Sun, Yiyong Pan, Yifeng Li</i>	

Analysis of Traffic Operation Performances at Roundabouts	741
<i>Ying Liu, Xiucheng Guo, Dewen Kong, Hao Liang</i>	
Study on People Square's Mass Passenger Flow Management System Launched in Shanghai Urban Rail Transit	751
<i>Donghao, Huang Qixiang, Pan Hanchuan</i>	

RCTV 2

Characterize Dilemma Zone and Minimize its Effect at Coordinated Signalized Intersections	766
<i>Mingmin Wu, Wanjing Ma, Li Li</i>	
Study on Calculation Methods of Intersection Unblocked Reliability based on the Random Arrival of Vehicle	779
<i>Jing Qiao, Lishan Sun, Jian Rong</i>	
Life-cycle Cost Analysis (LCCA) on Steel Bridge Pavement Structural Composition	785
<i>Dejia Zhang, Fen Ye, Jingfen Yuan</i>	
An Auxiliary System Design for the OD Survey of Residents based on Mobile Facility	790
<i>Lan Wu, Li Lin, Tao Lu</i>	
Correlation Analysis and Data Repair of Loop Data in Urban Expressway based on Co-integration Theory	798
<i>Liu Heng, Duan Zhengyu, Shi Xiaofa</i>	
Study on Flow Direction Changing Method of Reversible Lanes on Urban Arterial Roadways in China	807
<i>Xu Li, Jun Chen, Hao Wang</i>	
Optimal Routing Problem in Dynamic Stochastic Networks	817
<i>Shichao Sun, Zhengyu Duan, Dongyuan Yang</i>	
Feasibility of Unconditional Transit Signal Priority Considering Delay Savings at Signalized Intersections: A Case Study of Dalian BRT Line No.1	828
<i>Zhongyi Zuo, Guangchuan Yang</i>	
Research on e-Commerce Logistics System Informationization in Chain	838
<i>Chen Xianglian, Lin Hua</i>	
Optimization on Retrieving Containers based on Multi-phase Hybrid Dynamic Programming	844
<i>Zhan Bian, Zhi-hong Jin</i>	
The Comprehensive Research on Scheme Evaluation of Urban Expressway	856
<i>Guoqing Jing, Pengfei Fu, Wang Peng, Jing Xu</i>	
Evacuation Route Optimization based on Tabu Search Algorithm and Hill-climbing Algorithm	865
<i>Tuping Jiang, Gang Ren, Xing Zhao</i>	
Understanding the Travel Behavior of Elderly People in the Developing Country: A Case Study of Changchun, China	873
<i>Xiaowei Hu, Jian Wang, Lei Wang</i>	
Development of Traffic Safety Evaluation Method based on Simulated Conflicts at Signalized Intersections	881
<i>Huanyun Zhou, Fei Huang</i>	
Study on Permanent Deformation of Asphalt Mixtures by Single Penetration Repeated Shear Test	886
<i>Yan Xu, Lijun Sun</i>	
Research on Environmental Sustainability in Eastern Asia Region based on Transport Policies	894
<i>Wei-wei Liu, Jieshuang Dong, Wang Qian</i>	
Engineering Countermeasures to Reducing Unintentional Yellow-light Running Owing to Dilemma Zone	900
<i>Xiaoyi Lin, Lin Cheng</i>	
Study on Signal Priority Implement Technology of Tram System	905
<i>Bingbing Zhao, Yi Zhang, Zuo Zhang, Maojing Jin, Zhiheng Li</i>	
Simulation Framework for Vehicle Platooning and Car-following Behaviors Under Connected-vehicle Environment	914
<i>Li Zhao, Jian Sun</i>	
Research on Slow Traffic Forecast based on Land Use: A Case Study of Xi'an City	925
<i>Qiuping Wang, Siying Wang, Yifan Yang</i>	
The Strain Field Model and its Modification of Semi-rigid Asphalt Pavement with Graded Granular Interlayer	933
<i>Zhongyin Guo, Shaohui Li, Yongshun Yang</i>	
Vehicle Routing Optimization for Deicing Salt Spreading in Winter Highway Maintenance	945
<i>Binglei Xie, Ying Li, Lei Jin</i>	
A Study of Investigation Method Upon Expressway Service Level	954
<i>Run-mou Xiao, Sheng-yu Yan</i>	

Research on Behavior and Psychological Characteristics of Pedestrians in Terminal	961
<i>Bing Li, Ying-hui Wang</i>	
The Robust Model of Continuous Transportation Network Design Problem with Demand and Cost Uncertainties	970
<i>Jin Xin Cao, Xia Xi Li, Zheng Yu Wang, Jun Wu</i>	
Dynamic Simulation of Land Use Changes in Port City: A Case Study of Dalian, China	981
<i>Liang Chen, Wang Nuo</i>	
Research on Psychological Characteristics of Passengers in Terminal and Some Related Measures	993
<i>Bing Li, Qiu-si Jin, Hong-yu Guo</i>	
Traffic Safety Analysis of Intersections between the Residential Entrance and Urban Road	1001
<i>Manzhen Duan, Hongying Ya, Lin Zhang, Hongmei Jia</i>	
Location Optimization Model of Regional Express Distribution Center	1008
<i>Yingfeng Ji, Hualong Yang, Yan Zhang, Weixin Zhong</i>	
Multiple-step ahead Traffic Forecasting based on GMM Embedded BP Network	1014
<i>Yuebiao Li, Zhiheng Li, Maojing Jin, Shengchao Yin</i>	
Research on the Comprehensive Evaluation System for River in Jiangsu Province Coastal Areas	1025
<i>Hao Jianxin, Wang Dongying</i>	
Study of Influence of Parking in the Ways on Road Capacity Around Schools based on Flocking Theory	1030
<i>Zheng Yu Wang, Wei Li Zhang, Lei Wang, Jin Xin Cao</i>	
Solve the Discrete Network Design Problem Under Construction cost Uncertainties with the Stochastic Programming Approach	1039
<i>Jin Xin Cao, Yang Wang, Zheng Mao Wei, Jun Wu</i>	
The Audit Method Research on Enterprise and Institution Information Technology Projects Invested by Government	1050
<i>Luping Zhi, Xizhao Zhou</i>	
An Analysis of Driver's Choice based on Information of Traffic Accidents	1055
<i>Guang Chen, Hongmei Jia, Zheng Li, ManZhen Duan, Xueyu Mi</i>	
Design Scheme of Public Transport Comprehensive Dispatching MIS based on MAS	1063
<i>Runhua Qian, Hua Cong, Ruiling Zhao, Yuanxing Li</i>	
A Totally Astar-based Multi-path Algorithm for the Recognition of Reasonable Route Sets in Vehicle Navigation Systems	1069
<i>Wei Yin, Xiaoguang Yang</i>	
Eco-driving Versus Green Wave Speed Guidance for Signalized Highway Traffic: A Multi-vehicle Driving Simulator Study	1079
<i>Dening Niu, Jian Sun</i>	
A Travel Simulator for Collecting Data on Driver Response to Graphical Route Information Panel	1091
<i>Hong-cheng Gan</i>	
A Study on Analysis and Comparison of Transportation Status of Regional Freeway	1101
<i>Sheng-yu Yan, Run-mou Xiao, Qing-peng Meng</i>	
System Dynamics Model of Shanghai Passenger Transportation Structure Evolution	1110
<i>Chao Yang, Zishan Miao</i>	
Emissions Impacts of the Park-and-Ride Strategy: A Case Study in Shanghai, China	1119
<i>Hongcheng Gan, Qing Wang</i>	
Robust Optimization Model for a Network Design Problem Under OD Demand Uncertainty	1127
<i>Tao Feng Xie, Jin Xin Cao, Guo Qing Chen, Jun Wu</i>	
Analyzing the Activity Areas of Non-resident Tourists of Shanghai Expo Using Cellular Phone Data	1136
<i>Fengjiao Jia, Xiaoyun Cheng, Zhengyu Duan</i>	
Promoting the Marketization of Battery-electric-Bus(BEB) based on the Satisfaction Model	1146
<i>Ye Li, Lei Bao, Haopeng Deng, Danni Lu</i>	
Research on the Operational Characteristics of Diverging Area on Expressway Off-ramp based on Different Restricted Strategy of Lane	1156
<i>Jianguo Gong, Xiucheng Guo, Shuai Dai, Li Duan</i>	
Multivariant Forecasting Mode of Guangdong Province Port throughput with Genetic Algorithms and Back Propagation Neural Network	1165
<i>Fang Feng Ping, Fang Xue Fei</i>	
Effect of Visual Range on Driving Speed on Low-grade Highway	1175
<i>Pin Wang, Shou'en Fang, Junhua Wang</i>	
Study on Merging Sign Installation in Work Zone of Expressway based on Changeable Critical Headway	1185
<i>Xiao-huan Zhou, Guo-Feng Li, Zhong-yin Guo, He Jiang</i>	
Road Wildlife Ecology Research in China	1191
<i>Yaping Kong, Yun Wang, Lei Guan</i>	

Application of an Agent-based Modeling to Simulate Destination Choice for Shopping and Recreation	1198
<i>Haoyang Ding, Wei Wang, Min Yang</i>	
An Improved Tabu Search Approach to Vehicle Routing Problem	1208
<i>Hongmei Jia, Yang Li, Bo Dong, Hongying Ya</i>	
Joint Optimization of a Rail Transit Route and Bus Routes in a Transit Corridor	1218
<i>Yang Sun, Xiaonian Sun, Baoqing Li, Dehui Gao</i>	
Efficiency Analysis of Chinese Road Systems with DEA and Order Relation Analysis Method: Externality Concerned	1227
<i>Peihua Fu, Zhenggang Zhan, Chengjian Wu</i>	
An Analysis of Interstate Freight Mode Choice between Truck and Rail: A Case Study of Maryland, United States	1239
<i>Yaowu Wang, Chuan Ding, Chao Liu, Binglei Xie</i>	
Optimal Slot Control Model of Container Sea-Rail Intermodal Transport based on Revenue Management	1250
<i>Di Liu, Hua-long Yang</i>	
The Demand Analysis of Bike-and-ride in Rail Transit Stations based on Revealed and Stated Preference Survey	1260
<i>Chen Jingxu, Chen Xuewu, Wang Wei, Feng Baol</i>	
A Review of Advances of Nanotechnology in Asphalt Mixtures	1269
<i>Jun Yang, Susan Tighe</i>	
Accuracy Comparison of Roadway Earthwork Computation between 3D and 2D Methods	1277
<i>Jian-chuan Cheng, Long-jian Jiang</i>	
Research on Rail Transit Network System and its Connection Model in the Metropolitan Area	1286
<i>Cai Jingjing, Zheng Changjiang, Yang Ming</i>	
Private Car Switched to Public Transit by Commuters, in Shanghai, China	1293
<i>Ling Wang, Linbo Li, Bing Wu, Yufang Bai</i>	
Advances in micromechanical constitutive theories and modeling in asphalt mixture: A review	1304
<i>Jiantong Zhang, Jun Yang</i>	
Study on the Collision Avoidance Strategy at Unsignalized Intersection based on PreScan Simulation	1315
<i>Zhizhou Wu, Jie Yang, Luoyi Huang</i>	
The Optimize Management of Passenger Organization in Transfer Station based on Dynamic Passenger Flow Analysis	1322
<i>Wei Li, Jingnan Zhou</i>	
Bus Dwell Time Estimation and Prediction: A Study Case in Shanghai-China	1329
<i>Cen Zhang, Jing Teng</i>	
Research on Interfacial Shear Characteristics of Crumb Rubber Modified Asphalt Concrete Bridge Deck Pavement Structure	1341
<i>Lan Wang, Zhi-yang Wu, Wen-bin Huang</i>	
The Public Transportation System of High Quality in Taiwan	1350
<i>Yuqian Shi, Xiaoguang Yang</i>	
A New Marine Auto-response Quantitative Wind Forecast System	1362
<i>Jun Jian, Peter Webster</i>	
Environmental and Traffic Effects on Incident Frequency Occurred on Urban Expressways	1366
<i>Jiangman Zhang, Xiaohong Chen, Yingfei Tu</i>	
Construct Humanized Off-site Enforcement System for Road Traffic Management	1378
<i>Jiang Liangwei</i>	
Speed-accident Relationship at Urban Signalized Intersections	1383
<i>Zhun Tian</i>	
Three-velocity Queueing Model for Congested Traffic Flow Simulation	1389
<i>Han Jiang, Zhiheng Li, Rui Jiang, Jingyan Song, Li Li</i>	
Spatial-temporal Evolution of Multi-airports' Homogenization in China Yangtze River Delta	1402
<i>Yonglei Jiang, Lu Wang, Xiaolin Jiang, Jing Lu</i>	
A Cell Automation Traffic Flow Model for Mixed Traffic	1412
<i>Guangjiao Chen, Fankun Meng, Guolong Fu, Mingyang Deng, Ling Li</i>	
Electronic Toll Collection System Engineering Quality Inspection Evaluation and Control Method	1420
<i>Chengzan Chu, Chuanzheng Zhu, Cheng Wang, Meng Zhang</i>	
Cause Analysis and Countermeasures of Beijing City Congestion	1426
<i>Shaoyang Hua, Junli Wang, Yin Zhu</i>	
Mechanism Analysis and Optimization of Signalized Intersection Coordinated Control under Oversaturated Status	1433
<i>Aoxiang Wu, Liqun Qi, Xiaoguang Yang</i>	
Modeling and Algorithms of the Crew Scheduling Problem on High-speed Railway Lines	1443
<i>Zhiqiang Tian, Qi Songa</i>	

Research and Development on Survey and Statistical Analysis Software of Resident Travel OD Based on B/S Mode	1453
<i>Wenping Li, Weiqing Wang, Yi Zhao</i>	
Rendering of Dynamic Road Traffic Noise Map based on Paramics	1460
<i>Xia-lin Ma, Ming Cai</i>	
Preliminary Study on Streamlined Design of Longitudinal Profile of High-speed Train Head Shape	1469
<i>Xinwen Yang, Jielong Jin, Guangtian Shi</i>	
Real-time Queue Length Estimation of Signalized Intersections Based on RFID Data	1477
<i>Aoxiang Wu, Xiaoguang Yang</i>	
Research Review of Origin-destination Trip Demand Estimation for Subnetwork Analysis	1485
<i>Qionghua Deng, Lin Cheng</i>	
Finding Community Structure and Evaluating Hub Road Section in Urban Traffic Network	1494
<i>Haiwei Chen, Yucong Hu</i>	
Transit Vehicles Intelligent Scheduling Optimization Based on the Division of Characteristic Periods	1502
<i>Xu Zhoucong, He Peijia, Teng Jing, Liu Liping</i>	
Research and Practice on Equilibrium Theory of Road Capacity	1513
<i>Xiao-ping Wu, Xiao-hong Du</i>	

RCTV 3

Analysis of Urban Public Transit Information Requirements in China by Web-based Survey	1522
<i>Xianyao Hou, Xuewu Chen</i>	
Volatility of Forward Price in Dry Shipping Market	1528
<i>Xiaoxing Gong, Jing Lu</i>	
Exploring Effects of Network Spatial Characteristics on Macroscopic Fundamental Diagram	1538
<i>Dabin Liao, Wanjing Ma, Yingqin Luo, Zongqi Shi</i>	
Commuter Travel Identification Based on Bus IC Data	1547
<i>Dafu Zhang, Xinming Zhang, Jian Wang</i>	
Research on the Optimal Density of Highway Network	1556
<i>Fang Wang, Xiaoyu Han</i>	
Measuring IVIS Impact to Driver by On-road Test and Simulator Experiment	1566
<i>Chenjiang Xie, Tong Zhu, Chunlin Guo, Yimin Zhang</i>	
Research on the Real-time Traffic Status Identification of Signalized Intersections Based on Floating Car Data	1578
<i>Aoxiang Wu, Wei Yin, Xiaoguang Yang</i>	
An Adaptive Pedestrians Crossing Signal Control System for Intersection	1585
<i>Mei Xiao, Lei Zhang, Yiming Hou, Song Chuan</i>	
A Method of Construction of Index System for Highway Maintenance Management	1593
<i>Jie Zhu, Zhang Chen, Li-jun Sun</i>	
Comparison Study on Travel Characteristics between Two Kinds of Electric Bike	1603
<i>Longyu Wei, Feifei Xin, Kang An, Yitong Ye</i>	
Complexity Modeling and Stability Analysis of Urban Subway Network: Wuhan City Case Study	1611
<i>Youjun Liu, Yue Tan</i>	
Study on Subjective and Objective Safety and Application of Expressway	1622
<i>Zhizhong Li, Xiaohuan Zhou, Xiaoran Wang, Zhongyin Guo</i>	
Deployment Model for Urban Guide Signs Based on Road Network Topology	1631
<i>Mina Li, Min Huang, ZhongMing Niu, MingLei Rao</i>	
Laboratory Evaluation on the Long-term Aging Characterization of Warm Modified Binders	1640
<i>Jie Ji, Zhi Suo, Ying Xu</i>	
Influence of Access Traffic on the Operational Efficiencies of Bus Lane and Main Road	1648
<i>Xinchen Ye, Wanjing Ma</i>	
Vehicle Continuous Collision Accident Reconstruction System Development	1659
<i>Wei Lang, Gong Biao, Chen Tao</i>	
An Enhanced Weight-based Topological Map Matching Algorithm for Intricate Urban Road Network	1670
<i>Haiqiang Yang, Shaowu Cheng, Huifu Jiang, Shi An</i>	
Optimal Strategy of Pavement Preventive Maintenance Considering Life-cycle Cost Analysis	1679
<i>Tingting Ding, Lijun Sun, Zhang Chen</i>	
Driving Behavior Theory and Computer Simulation System of Driver's Risk Perception based on 3D	1686
<i>Zhao Jian-you, Shi Xiao-fen, Zhao Liang, Zhao Shuang-xi, Niu Xi-yang</i>	
An Improved Optimization Method for Isolated Signalized Intersection Based on the Temporal and Spatial Resources Integration	1696
<i>Shanglu He, Wei Wang, Jian Zhang, Jie Yang</i>	

Study and Application in Road Survey on CORS Technique	1707
<i>Lei Wang, Wu-sheng Hu</i>	
Simulation Study towards a New Sustainable Transportation Solution in Urban Areas, S.A.T. Project	1712
<i>Y. Liang, J. Serrano, N.A. Pecorari, V. Serrano</i>	
The Study of City Circle's Interval Traffic Forecast based on Volume Spatial Contact Model	1721
<i>Fu Junming, Yan Taowei, Yuan Erpu</i>	
Research on the Link Travel Time Model for High Occupancy Vehicle Lanes of Freeways	1728
<i>Xiang Zhang, Wei Wang, Shuyan Chen, Zhibin Li</i>	
A Safety Assessment of China's Crude Oil Import Based on G1 Method	1738
<i>Lu Jing, Wang Yao</i>	
Capacity Model for Signalized Intersection under the Impact of Upstream Short Lane	1745
<i>Jing Zhao, Meiping Yun, Xiaoguang Yang</i>	
Effects of Information Filtering on Driving	1755
<i>Zhirui Ye, Yuan Wang, Yuan Wen</i>	
The Optimization of On-ramp Junction Capacity based on Zippered Control Strategy	1764
<i>Huadong Tan, Xiaoguang Yang, Aoxiang Wu</i>	
Evaluation of Port Development based on the Theory of the Driving Force and the Law of Entropy Weight	1774
<i>Rongtai Lin, Jian Tan</i>	
Variable Speed Limit Control on Highway Work Zone Considering Large Vehicle Mix Rates	1784
<i>Zhizhou Wu, Hao Li, Hongsu Yang</i>	
Studies on Evaluation of Modernization of the Inland Port and Shipping Management based on DPSIR Model and Gray Correlation Evaluation Model	1792
<i>Xiaofeng Wen, Ning Chen</i>	
Identifying Factors Impacting Customers' Perceived Waiting Time in High Density Passenger Flow Waiting Areas	1801
<i>Jiao Rong Wu, Su Gang Lu, Ying En Ge</i>	
The Research of Logistics Cost and Influencing Factors Based on Cross Docking	1812
<i>Hanchuan Pan, Ruifang Wang, Hao Dong, Feng Zhou</i>	
Road Network Capacity Reliability Considering Travel Time Reliability	1818
<i>Aiwu Kuang, Zhiqiang Tang, Liangci Shan</i>	
Travel Characteristics of E-bike Users: Survey and Analysis in Shanghai	1828
<i>Kang An, Xiaohong Chen, Feifei Xin, Bin Lin, Longyu Wei</i>	
A Calibration Method for Misalignment Angle of Vehicle-mounted IMU	1853
<i>Zewen Bao, Guangquan Lu, Yunpeng Wang, Daxin Tian</i>	
Modeling and Application of Passenger Transport Network Capacity in New Town Based on Control Indicators	1861
<i>Yucong Hu, Zengxi Xiang, Haiwei Chen</i>	
Differences in Injury Severity of Accidents on Mountainous Highways and Non-mountainous Highways	1868
<i>Feng Chen, Suren Chen</i>	
A Strategy on Coordination Control under Saturated Condition	1880
<i>Liqun Qi, Aoxiang Wu, Xiaoguang Yang</i>	
A Service-based Method to Generate Shuttle Bus Timetable in Accordance with Rail Transit Timetable	1890
<i>Jiang Zhibin, Huang Qixiang</i>	
A Hierarchical Path Planning Method Using the Experience of Taxi Drivers	1898
<i>Ji-hua Hu, Ze Huang, Jun Deng</i>	
Traffic Impact Analysis of Urban Intersections with Comprehensive Waiting Area on Urban Intersection based on PARAMICS	1910
<i>Xi Xia, ZhaoCheng He, WenBo Sun, ZhanQiu Chen, JunFeng Gong</i>	
A Capacity Assessment Method on Urban Expressway after Traffic Incident	1921
<i>Chen Hong, You Yue-sheng, Zhang Bin</i>	
The 3D Attenuation Calculation of Traffic Noise among Building Groups by Using Beam Tracing Method	1929
<i>Hai-bo Wang, Zhi Yu, Ming Cai</i>	
Optimization Model for Truck Appointment in Container Terminals	1938
<i>Xiaoju Zhang, Qingcheng Zeng, Wenhao Chen</i>	
Analysis of Passenger's Choice between Shuttle Bus and Illegal Taxi	1948
<i>Boyu Wang, Lingyin Zhao, Yuqi Pang, Dong Zhang, Xiaoguang Yang</i>	
Port Competitiveness Evaluation Research based on Chernoeff Faces Model	1961
<i>Yao Liu, Shengrong Lu, Peilin Zhang</i>	

An Exploration of the Interdependencies between Trip Chaining Behavior and Travel Mode Choice	1967
<i>Jianchuan Xianyu</i>	
Road Network Capacity Reliability based on Transfer Hubs	1976
<i>Ning Zhang, Xiaodong Pan, Feng Chen, Qing Fang</i>	
A Phase-by-phase Traffic Control Policy at Isolated Intersection Based on Cooperative Vehicle-infrastructure System	1987
<i>Yinsong Wang, Xiaoguang Yang, Luoyi Huang, Lun Zhang</i>	
Estimates of Pedestrian Crossing Delay based on Multiple Linear Regression and Application	1997
<i>Dan Li, Xiaofa Shi</i>	
Comparative Study of VISSIM and SIDRA on Signalized Intersection	2004
<i>Tianzi Chen, Shaochen Jin, Hongxu Yang</i>	
Control Strategy of Variable Speed Limits for Improving Traffic Efficiency at Merge Bottleneck on Freeway	2011
<i>Hang Zhang, Zhibin Li, Pan Liu, Chengcheng Xu, Hao Yu</i>	
Delay Analysis of Stop Sign Intersection and Yield Sign Intersection based on VISSIM	2024
<i>Meiping Yun, Jing Ji</i>	
Resident Mobility Analysis Based on Mobile-phone Billing Data	2032
<i>Rao Zonghao, Yang Dongyuan, Duan Zhengyu</i>	
Decision-making Method of Highway Network Planning based on Prospect Theory	2042
<i>Li Xiaowei</i>	
Evaluating the Effectiveness of Variable Message Signs Location Scheme in Parking Guidance System	2051
<i>Yanjie Ji, Dounan Tang, Baohong He</i>	
The Measurement for Performance Parameter of Automobile Braking System with Electronic Vacuum Booster	2058
<i>Beibei Jia, Guangquan Lu, Yunpeng Wang, Guizhen Yu</i>	
A k Nearest Neighbor based Local Linear Wavelet Neural Network Model for On-line Short-term Traffic Volume Prediction	2066
<i>Lei Lin, Yan Li, Adel Sadek</i>	
Research on Conflict Point Delay of Left-turning Vehicles at Two Phases Signal Control Intersection	2078
<i>Hao Liang, Xiucheng Guo, Junhong Hu</i>	
Identifying Urban Traffic Congestion Pattern from Historical Floating Car Data	2084
<i>Lin Xu, Yang Yue, Qingquan Li</i>	
Throughput and Delay Limits of 802.11p and its Influence on Highway Capacity	2096
<i>Yunpeng Wang, Xuting Duan, Daxin Tian, Guangquan Lu, Haiyang Yu</i>	
Multi-modal Transportation Investment in Kazakhstan: Planning for Trade and Economic Development in a Post-Soviet Country	2105
<i>Jiawen Yang, Patrick McCarthy</i>	
Asphalt Pavement Maintenance Technologies Evaluation Model based on “Economic-Benefit” Index	2115
<i>Bowen Zhou, Chi Zhang, James Tsai, Xinxin Guo, Xuanbo Zhou</i>	
Medical Condition Analysis and Safety Loophole Screening of CDL Drivers	2123
<i>Liu Wenchao, Hu Mengxia, Zhang Daming</i>	
Methodology for Variable Speed Limit Activation in Active Traffic Management	2129
<i>Shao-long Gu, Jun Ma, Jun-li Wang, Xiao-qing Sui, Yan Liu</i>	
Integrated Multimodal Metropolitan Transportation Model	2138
<i>Yanli Wang, Xiaoyu Zhu, Linbo Li, Bing Wu</i>	
Travel Time Estimation Model for Emergency Vehicles under Preemption Control	2147
<i>Jiawen Wang, Meiping Yun, Wanjing Ma, Xiaoguang Yang</i>	
Brief Analysis of the Implementation of Motorways of the Sea Concept in China	2159
<i>Li Wu, Jiaqi Yang</i>	
Reasons and Countermeasures of Traffic Congestion under Urban Land Redevelopment	2164
<i>Yanli Wang, Xiaoyu Zhu, Linbo Li, Bing Wu</i>	
Analysis of Driver's Adaptability of Stress Response in Dangerous Situation	2173
<i>Zhao Jianyou, Zhong Rui, Zhao Yang, Hao Longfei</i>	
Comprehensive Evaluation of Traffic Noise Pollution Based on Population Exposure	2179
<i>Lin-hua Xie, Ming Cai, Er-da Li</i>	
Traffic Safety Knowledge Survey and Difference Analysis for Migrant Workers	2187
<i>Haiyan Sun, Dongyuan Yang</i>	
Research on Risk Control of Logistics Park Construction Project Based on Reliability Theory	2194
<i>Yuzhou Wang</i>	
New Calculating Method for HCM 2000 Queue Length Estimation Procedures with the Application of Floating Car Data	2201
<i>Qing Cai, Zhongyu Wang, Xi Guo, Bing Wu</i>	
Research on the Delay in Signalized Intersection with Left-turn Special Phase	2211
<i>Yanxi Hao, Xiaoguang Yang</i>	

Equity of Integrated Transportation Investment based on Homogenized Service	2219
<i>WanJun Cai, Ting Ye, Ning Ma, Qiji Kuang, Bin Yu</i>	
Decision Oriented Intelligent Transport Information Platform Design Research – Case study of Hangzhou City	2230
<i>Xu Bin, Chen Xiaohong, Lin Hangfei, Yang Chao</i>	
Characteristics Analysis of Urban Traffic in Small and Medium-Sized Cities in Context of Mechanization—with Huai’an as an Example	2240
<i>Dingxin Wu, Wei Deng</i>	
Study on Temporal Distribution Characteristics of Urban Freight Corridors	2248
<i>Gaohua Guo, Xiaofa Shi, Weifeng Li</i>	

RCTV 4

Applicative Suburban Line Pattern of Urban Rail Transit in China	2260
<i>Xiuping Li, Tao Yang, Quan Shi</i>	
Dynamic Analysis of the Track on Roadbed-bridge Transition Section and Research on its Reasonable Length	2267
<i>Sun Jian-gang, Duan Shu-jin, Cui Chun-xia</i>	
A Simulation-based Approach for Sustainable Transportation Systems Evaluation and Optimization: Theory, Systematic Framework and Applications	2274
<i>Mingzhu Song, Mogeng Yin, Xiqun Chen, Lei Zhang, Meng Li</i>	
Predicting Bus Real-time Travel Time Basing on both GPS and RFID Data	2287
<i>Xinghao Song, Jing Teen, Guojun Chen, Qichong Shu</i>	
Study on Influencing Factors for Service Performance of Anti-sliding Layer with Hot Melting Macadam	2300
<i>Yixiang Cao, Junyan Yi, Zhaojie Sun, Decheng Feng</i>	
Analysis of Impact of Transverse Slope on Hydroplaning Risk Level	2310
<i>Xin-xin Guo, Chi Zhang, Bu-xin Cui, Di Wang, James Tsai</i>	
Research on Freight Truck Operation Characteristics Based on GPS Data	2320
<i>Fu Yanhong, Shi Xiaofa</i>	
Dynamic Transportation Planning and Operations: Concept, Framework and Applications in China	2332
<i>Mingqiao Zou, Xiqun Chen, Haixiao Yu, Yinan Tong, Ziwei Huang, Meng Li, Haoda Zou</i>	
Development of Model-based Transit Signal Priority Control for local Arterials	2344
<i>Yongjie Lin, Xianfeng Yang, Lei Jia, Nan Zou</i>	
A Lane Change Model with the Consideration of Car Following Behavior	2354
<i>Xiaorui Wu, Hongxu Yang</i>	
Optimal Variable Speed Limit Control for Real-time Freeway Congestions	2362
<i>Xianfeng Yang, Yongjie Lin, Yang Lu, Nan Zou</i>	
Analysis on Bus Choice Behavior of Car Owners based on Intent – Ji’nan as an Example	2373
<i>Huanmei Qin, Hongzhi Guan, Zhihu Zhang, Liu Tong, Liyuan Gong, Yunqiang Xue</i>	
Optimal Design of Feeder-bus Network Related to Urban Rail Line based on Transfer System	2383
<i>Lian-bo Deng, Wei Gao, Wen-liang Zhou, Tian-zhen Lai</i>	
Generating Enhanced Intersection Maps for Lane Level Vehicle Positioning based Applications	2395
<i>Jiang Liu, Baigen Cai, Yunpeng Wang, Jian Wang</i>	
A Traffic Emission-saving Signal Timing Model for Urban Isolated Intersections	2404
<i>Rao Qian, Zhang Lun, Yang Wenchen, Zhang Meng</i>	
Probabilistic Assessment of Vehicle Safety under Various Driving Conditions: A Reliability Approach	2414
<i>Feng Chen, Suren Chen</i>	
Railway Container Center Door Lane Analysis based on α-cut Theory	2425
<i>Xue-yu Mi, Guang Cheng</i>	
A New Traffic Prediction Method based on Dynamic Tensor Completion	2431
<i>Huachun Tan, Yuankai Wu, Guangdong Feng, Wuhong Wang, Bin Ran</i>	
Travel Purpose Oriented Urban Cycling Network Planning	2443
<i>Chun-lin Guo, Cong-ying Li, Tong Zhu</i>	
A Traffic State Detection Tool for Freeway Video Surveillance System	2453
<i>Xiyang Li, Yongye She, Donghua Luo, Zhi Yu</i>	
Analysis on Steel Bridge Pavement Structure Performance	2462
<i>Dejia Zhang, Fen Ye, Jingfen Yuan</i>	
Improving Emergency Goods Transportation Performance in Metropolitan Areas under Multi-echelon Queuing Conditions	2466
<i>Xinhua He, Wenfa Hu, Jia Hao Wu, Chuanxu Wang</i>	
The Numerical Analysis of Engineering Vehicle Power Compartment Air Flow	2480
<i>Fei Wang, YaXu Chu, LiLi Wang, Hao Wang</i>	

The Analysis of Traffic Control Cyber-physical Systems	2487
<i>Shi Jianjun, Wu Xu, Guan Jizhen, Chen Yangzhou</i>	
Influence Factor Analysis of Stochastic Capacity of Shanghai Expressway Segment	2497
<i>Yang Chao, Chen Zhengzheng, Hua Chenrui</i>	
Driver's Reaction Time towards Red-light Timing at Urban Intersections	2506
<i>Yang Yanqun, Zheng Xinyi, Jiang Sudan, Xu Yifan</i>	
Consensus based Approach to the Signal Control of Urban Traffic Networks	2511
<i>He Zhonghe, Chen Yangzhou, Shi Jianjun, Wu Xu, Guan Jizhen</i>	
A Study on Variable Message Signs Graphical Comparison	2523
<i>Chen Er-hui, Liu Jing, Wang Yun-ling, Xiong Juan</i>	
Short-term Traffic Flow Forecasting based on Two-tier K-nearest Neighbor Algorithm	2529
<i>Hou Xiaoyu, Wang Yisheng, Hu Siyu</i>	
Study on Strategy of Guidance Information Space Release in Urban	2537
<i>Wang Yu-ling, Zhu Xue-liang, Chen Er-hui</i>	
Nanjing Yangtze River Bridge Transit Capacity Based on Queuing Theory	2546
<i>Haibin Zhou, Guoping Guo, Bing Wu</i>	
Analysis on Characteristics of Traffic Demand about SuTong Bridge	2553
<i>Chenming Jiang, Jian Lu, Yuming Jiang, Xiaonan Cai, Chunlu Peng</i>	
Analyzing Driving Risks of Roadway Traffic under Adverse Weather Conditions: In Case of Rain Day	2563
<i>Xiaonan Cai, Jian John Lu, Yingying Xing, Chenming Jiang, Weijie Lu</i>	
The Study of Driving Simulator Validation for Physiological Signal Measures	2572
<i>Jiahui Li, Xiaohua Zhao, Shili Xu, Jianming Ma, Jian Rong</i>	
A Study on the Widths Design of Highway Roadside Clear Zone by Considering Multi-factors	2584
<i>Yingying Xing, Linjun Lu, Jian John Lu, Shengxue Zhu</i>	
Temporal Pattern Analysis of Beijing Traffic Guidance Information Released by VMS	2595
<i>Lingling Fan, Shaokuan Chen, Wei Guan</i>	
Complex Network Approach for the Complexity and Periodicity in Traffic Time Series	2602
<i>Jinjun Tang, Yin Hai Wang, Hua Wang, Fang Liu</i>	
Correlation Analysis for Tensor-based Traffic Data Imputation Method	2611
<i>Huachun Tan, Zhongxing Yang, Guangdong Feng, Wuhong Wang, Bin Ran</i>	
Toward Transit Metropolis: Status Quo Analysis for Chinese Major Cities	2621
<i>Tian Jiang, Mingzhu Song, Yulin Jiang, Meng Li, Haoda Zou</i>	
Parking Choice Behavior Investigation: A Case Study at Beijing Lama Temple	2635
<i>Xiaolong Ma, Xiaoduan Sun, Yulong He, Yixin Chen</i>	
An Insight into Traffic Safety Management System Platform based on Cloud Computing	2643
<i>Xian Xiaobing, Bao Chao, Chen Feng</i>	
A Two Seismic Sensor Based Approach for Moving Vehicle Detection	2647
<i>Hua Wang, Wei Quan, Xin Liu, Shen Zhang</i>	
Cell Phone Mobility Classification based on k-Clustering and Linear Classification	2654
<i>Hua Wang, Shen Zhang, Xin Liu, Wei Quan</i>	
COM Component Technology Based Batch Gray Images Mosaic Method	2662
<i>Xin Liu, Wang Hua, Wei Quan, Shen Zhang</i>	
Dynamic Impact of Meteorological Factors on Freeway Free-flow Volume and Speed in Yanbian	2667
<i>Shen Zhang, Hua Wang, Xin Liu, Wei Quan</i>	
Measuring Variability in Freeway Traffic States Using Real-time Loop Data in Jilin	2676
<i>Shen Zhang, Hua Wang, Wei Quan, Xin Liu</i>	
Multi-fractal Analysis for Pavement Roughness Evaluation	2684
<i>Wei Quan, Hua Wang, Xin Liu, Shen Zhang</i>	
Novel Image Mosaic Algorithm for Concrete Pavement Surface Image Reconstruction	2692
<i>Hua Wang, Xin Liu, Shen Zhang, Wei Quan</i>	
Study on Safety Distance Model of Fleet based on Vehicle Communication	2698
<i>Hua Wang, Shen Zhang, Wei Quan, Xin Liu</i>	
Optimization Method for Last Train Coordination Plan of Urban Rail Transit Based on Network Operation	2706
<i>Zhou Feng Zhou, Jungang Shi, Hanchuan Pan</i>	
Speed Characteristics and Safety Risk Level Evaluation for Nighttime Roadway Work Area	2713
<i>Sien Zhou, Xinmiao Yang, Jia Yang, Can Zhang</i>	
Optimizing Battery Electric Bus Transit Vehicle Scheduling with Battery Exchanging: Model and Case Study	2725
<i>Chao Zhu, Xiaohong Chen</i>	
Making Siliguri a Walkable City	2737
<i>Dibyendu Bikash Bhattacharyya, Soumen Mitra</i>	

Quantification of the Reduction of Wet Weather Accidents Using Porous Friction Courses (PFC)	2745
<i>Andre de Fortier Smit, Jorge A. Prozzi</i>	
Educational Campaign for Improving Pedestrian Safety: A University Campus Study	2756
<i>Yu Zhang, Makarand Gawade, Pei Sung Lin, Trena McPherson</i>	
A Simulation Study for Minimizing Operating Speed Variation of Multilane Highways by Controlling Access	2767
<i>Bing Huang, Yu Zhang, Jian Lu, Linjun Lu</i>	
Performances Evaluation of Cecabase® RT in Warm Mix Asphalt Technology	2782
<i>Shu Wei Goh, Mohd Rosli Mohd Hasan, Zhanping You</i>	
New Concept of Traffic Rotary Design at Road Intersections	2791
<i>S.K. Mahajan, Anshul Umadekar, Kruti Jethwa</i>	
Economical Applications of GPS in Road Projects in India	2800
<i>S.M. Prasanna Kumar, S.K. Mahajan</i>	
Public Acceptance towards Congestion Charge: A Case Study of Brisbane	2811
<i>Chuanli Liu, Zuduo Zheng</i>	
A Stochastic Model for Reliability Analysis in Freeway Networks	2823
<i>Ning Wu</i>	
The Data Mining Approach for Analyzing Infrastructure Operating Conditions	2835
<i>Patrick A. Creary, F. Clara Fang</i>	
Key Issues in Integrating New Town Development into Urban Transportation Planning	2846
<i>Heng Wei, Abdollah Mogharabi</i>	
Rheological Evaluation of Foamed WMA Modified with Nano Hydrated Lime	2858
<i>Aboelkasim Diab, Zhanping You, Hainian Wang</i>	
Economic Model for Vehicle Ownership Quota Policies and Applications in China	2867
<i>Shanjiang Zhu, Longyuan Du, Chenfeng Xiong, Lei Zhang</i>	
Development of a Dynamic Control Model for Oversaturated Arterial Corridor	2884
<i>Gang Liu, Pengfei Li, Tony Z. Qiu, Xu Han</i>	
Evaluating Performance of a Proactive Optimal Variable Speed Limit Control Using Different Objective Functions	2895
<i>Md. Hadiuzzaman, Jie Fang, Ying Luo, Tony Z. Qiu</i>	
GIS-based Economic Cost Estimation of Traffic Accidents in St. Louis, Missouri	2907
<i>Shu Yang, Sijia Lu, Yao-Jan Wu</i>	
The Emerging Importance of a Mobility Strategy for South African Cities with GoMetro as a Case-Study	2916
<i>Justin Coetzee</i>	
Statistical Vehicle Specific Power Profiling for Urban Freeways	2927
<i>Zhuo Yao, Heng Wei, Hao Liu, Zhixia Li</i>	
Field Investigation of Traffic Noise by Pickup Trucks and Sports Utility Vehicles	2939
<i>Ping Yi, Sandeep Paparaju</i>	
Effects of Collision Avoidance System on Driving Patterns in Curve Road Conflicts	2945
<i>Hao Liu, Heng Wei, Zhuo Yao, Qingyi Ai, Hui Ren</i>	
Uncertainty Analysis for Flexible Airport Gate Development	2953
<i>Cheng-Chieh Chen, Paul Schonfeld</i>	
Author Index	