# TABLE OF CONTENTS

Research on Time Relevant Variables based Fatigue Level Prediction Model  
*Hui Zhang, Zhe Wang, Yan Li, Qi Zhang, Jinchong Zhang* ........................................... I

Optimization of Signal Coordination for Closely Spaced Intersections  
*Ai-bing Shu, Qiang Fu, Dong-bo Liu, Lei-lei Dai* ......................................................... 6

Benefit Evaluation Index and Methods for Road Intersection Signal Control  
*ZHANG Lei-yuan, SHU Ai-bing, MA Chao-Feng* ......................................................... 12

The prediction of the collision incident level in the lower reaches of the Yangtze River based on the mutual information  
*Shen Fan, Zhe Mao, Lingzhi Sang* ............................................................................ 17

Prediction of Seasonal Variation in Traffic Collisions on Rural Highways: A Case Study in the Province of British Columbia  
*Zongfan Luo, Jianbing Li, Ming Zhong* .................................................................. 23

Research on the Influence of Cargo Securing Force with Typical Road Alignments and Vehicle Working Conditions  
*ZONG Cheng-qiang, Zhang Hong-wei, Huang Chao-zhi, Dong Jin-song* ........... 27

Online Estimation for Vehicle Center of Gravity Height Based on Unscented Kalman Filter  
*Zejian Deng, Duanfeng Chu, Fei Tian, Yi HE, Chaozhong Wu, Zhaozheng Hu, Xiaofei Pei* .......................................................... 33

Design and Research of Integrated Information Platform for Smart Ship  
*You-lin TANG, Nan-nan SHAO* ................................................................................ 37

A study on Vehicle Noise Prediction Model at Lower Speed  
*Xiaoning Wang, Qionsai Bai, Gang Liu, Hongzhi Zhang* .............................................. 42

Scalable and Parameterized Dynamic Time Warping Architecture for Efficient Vehicle Re-identification  
*Guanbing Deng, Hanqing Zhou, Guangyu Yu, Zeyu Yan, Yu Hu, Xiaowei Xu* .... 48

Dynamic Traffic Shockwave Speed Estimation in Connected Vehicle Environment
Jiangchen Li, Chenhao, Wang Shuxian He, Tony Z. Qiu

Spatio-Temporal Study of Road Traffic Crash on a National highway of Bangladesh

Kazi Md Shifun Newaz, Shahnewaz Hasanat-El-Rabbi, Sohag Miaji

Link Travel Time and Delay Estimation Using Transit AVL Data

Zhu Meng, Chenhao Wang, Liqun Peng, Ai Teng, Tony Z. Qiu

The impact of traffic networks on urban sprawl: a case study for Hubei Province in central China

Wenting ZHANG, Haijun WANG

Probabilistic assessment for HDVs Rollover Using Second Order Reliability Method

Yi HE, Duanfeng CHU, Xiao-Yun LU, Chaozhong WU, Xinyu LIU

Analysis on oil pollution prevention program for wreck salvage operations based on oil behaviors underwater and surface: Illustrated by the case of a wreck salvage operation off the coast of China

CHEN Xuan, CAO Wei, SUN Jian-Wei, LI Jian-Wei, WANG Xuan-ya

Research on energy efficiency optimization of grid-connected photovoltaic system based on fuzzy logic

Xin Song, Chengqing Yuan, Yan Zhang

Use of Bayesian networks for emergency assistance assessment of ship capsizing

Zheng Liang, Di Zhang, Wen-gang Mao, Shi-qi Fan

A Numerical Study of Drag Reduction of Superhydrophobic Surfaces in Shipping Industry

Yifeng Fu, Chengqing Yuan, Xiuqin Bai

A Review on Human Factors in Maritime Transportation Using Seafarers’ Physiological Data

Shiqi Fan, Xinping YAN, Jinfen Zhang, Jin Wang

Study on Route Division for Ship Energy Efficiency Optimization Based on Big Environment Data

Kai WANG, Xinping YAN, Yapeng YUAN, Xiaoli JIANG, Gabriel Lodewijks, Rudy R. Negenborn

Study on Hydrodynamic Performance of Hubless Rim-Driven Propulsors with
Variable Parameters

Jiafen Lan, Xinping Yan, Wu Ouyang, Bao Liu, Xingxin Liang.........................117

Day-to-Day Dynamic Transport Network Model Considering Travelers’ Risky Route Choice Behaviors

Xiaoming Lou, Lin Cheng, Dawei Li...............................................................123

Study on the economic channel design for LNG ships using Pedersen grounding model

Weizhi Guo, Jingxian Liu, Xin Tong.................................................................129

Research on regular pattern of gap flow in Shaftless Rim-driven thruster

Bao Liu, Xinping Yan, Wu Ouyang, Jiafen Lan, Xingxin Liang.......................134

Evaluation of Urban Subway Line Scheme – An Empirical Study of Wuhan City

Chukun Gao, Jingsong Wan.................................................................139

Data-driven Models for Predicting Delay Recovery in High-Speed Rail

Chao Wen, Javad Lessan, Liping Fu, Ping Huang, Chaozhe Jiang................144

Collection of passenger flow data and development of passenger flow maps in metro stations

Shao Bo LIU, Siu Ming LO.................................................................152

A Longitudinal Minimum Safety Distance Model Based on Driving Intention and Fuzzy Reasoning

Haoran WU, Yan Li, Chaozhong WU, Zheng MA, Haiying ZHOU..............158

Summary and Prospect of the Technology of Inland Digital Waterway

Li Xue-xiang.................................................................163

ARIMA Modelling and Forecasting of Water Level in the Middle Reach of the Yangtze River

Zhen YU, Zhonglian JIANG, Guoping LEI, Fengyang LIU......................172

Coverage Effectiveness Analysis of AIS Base Station: A Case Study in Yangtze River

Lei Liu, Xiumin Chu, Zhonglian Jiang, Xinglong Liu, Jia Li, Wei He...........178

Analytical strategic safety management in container ports

Hani Al YAMI, Zaili YANG, Ramin RIAHI, Stephen BONSALL, Jin WANG,

Chengpeng WAN, Zhuohua QU.................................................................184
Reserve Bearing Capacity of Asphalt Pavement Based on the Reserve Factors

Jun FU, Li LEI, Zhihong LIU, Xiaodong MA, Xiaoqiang ZHANG

Ship heading control based on backstepping and Least squares support vector machine

Shuo XIE, Xiumin CHU, Chenguang LIU, Le WANG, Wengang MAO

Experimental Research on the Characteristics of Ship Propulsion System under Dynamic Excitations

Cong ZHANG, Qianwen HUANG

Cluster and Factor Analysis on Data of Fatal Traffic Crashes in China

Quan YUAN, Xinze LI, Cai WANG, Yibing LI, Yan GAO

The Mobile Phone Use Behavior and Its Effect on Pedestrian Safety at Signalized Intersections in China

Wei YuanyuAN, Zhang CUNBao, Zhou Bin, Chen FENG, Zhang HUALONG

A situation awareness approach for USV based on Artificial Potential Fields

WU Chao, WU Qing, MA Feng, WANG Shuwu

Design method of USV course-tracker based on simulation and real vessel experiment

Le WANG, Qing Wu, Chenguang Liu, Shuo XIE, Xiumin CHU

A Hybrid Model for Water Level Forecasting: A Case Study of Wuhan Station

Cheng ZHONG, Zhonglian JIANG, Xiumin CHU, Tao GUO, Xinglong LIU

Inland Waterway ‘Black Spot’ Identification Model Based on MEA-BP Neural Network Algorithm

DONG Shiyu, LIU Qing, WANG Lei, WANG Haiyan

Complexity Analysis of Traffic Time Series Based on Multifractality and Complex Network

Juan BAO, Wei CHEN, Yishui SHUI, Zhengtao XIANG

Research on the Schema of Changjiang Waterway Maintenance Management in the “Internet+” Age

Liu Huaihan, Li Xuexiang

Hybrid Lane-Based Short-Term Urban Traffic Speed Forecasting: A Genetic Approach
Asif Raza, Ming Zhong

The effects of mobile phone use on pedestrian crossing behavior and safety at unsignalized intersections

Hualong Zhang, Cunbao Zhang, Yuanyuan Wei, Feng Chen

Economic evaluation of climate chang impacts on road transportation in Atlantic Canada

Yuri Yevdokimov

Scheduling Optimization in Restricted Channels Based on the Agent Technology and Bayesian Network

Chen Chen, Xianqiao Chen

A distributed Model Predictive Control using Virtual Field Force for multi-ship collision avoidance under COLREGs

Tengfei Wang, Xiping Yan, Yang Wang, Qing Wu

The Conceptual Discussion of the Long-distance Public Passenger Transportation System

Tianyi Li, Longzhong Zhou, Wenjun Du, Zhiming Sun, Ning Zhang

Research on Fault Pattern Analysis of Marine Diesel Engine Based on Random Forest Algorithm

Xian-xin WANG, Bing HAN

A Personalized Route Guidance Approach for Urban Travelling and Parking to a Shopping Mall

Wei Liang, Yi Zhang, Jianming Hu, Xingchao Wang

Platoon-based Signal Control for Single Intersection under Condition of Intelligent Vehicle Infrastructure Cooperation Systems(IVICS)

Liu Yang, Jianming Hu, Yujing Li, Xin Pei

Fire Risk Assessment of battery powered ship using Entropy Cloud Method

Wenfen Zhang, Xiping Yan

Traffic Sign Recognition Task Cognitive Integration Model Based on the ACT-R Cognitive Structure

Chao DENG, Chaozhong WU, Nengchao LYU
Research of obstacle recognition method for USV based on laser radar

Shuwu Wang, Lei Xie, Feng Ma, Chao Wu, Kun Xu

A Multi-scale Indoor Localization Method for Shipboard environment

Zhao Hu, Kezhong Liu, Mozi Chen, Jie Ma

Quality Assessment Model for Shipping Data Sources of the Yangtze River

Chen Chen, Wu Qing, Gao Song

Research on Gear-box Lubricating Fault Pattern Recognition Based on Rough Neural Network

Fuming Kuang, Xincong Zhou, Jinshan Pang, Minjie Chen

Monte Carlo Sampling Based Imminent Collision Detection Algorithm

Peng Chang, Christoph Mertz

Research on the Longitudinal Guide and Control System of Automated Cone Placement and retrieval Vehicle for the Freeway Traffic Accident Scene Isolation

Yan LI, Ze LI, Nengchao LYU, Zhen HUANG

An Artificial Potential Field-based Simulation Approach for Maritime Traffic Flow

Ting-ting Cheng, Qing Wu, Feng Ma

Transit Travel Time Prediction for Passing Signalized Intersection Using Vehicle Positioning Data

Ai Teng, Liqun Peng, Chenhao Wang, Tony Z Qiu

Study on the MMG three-degree-of-freedom motion model of a sailing vessel

Xu You, Ming Huang, Feng Ma, Wei He

Research on Safety Monitoring System of Workers in Dangerous Operation Area of Port

LI Haibo

An Automatic Tracking and Positioning System for Automated Container Terminals

WANG Nini, LI Haibo

Study of Safety and Economy of Utilizing Shore Power Supply System for Oceangoing Ship

FENG Yue, LI Haibo
Ship Target Classification Based on Hu Invariant Moments and ART for Maritime Video Surveillance

Qiwang Du, Yingjun Zhang, Xuefeng Yang, Wen Liu

Hybrid Thermal-photovoltaics Water Distillation Equipment Design and Its Thermodynamic Analysis

Qing Li, Yuwei Sun, Xujing Tang, Wenjun Tang, Kun Li

Design of the security alarm control system for LNG-fueled vessels

Qing Li, Kun Li, Guoqing Wang, Chang Liu

Research on Taxi Drivers’ Passenger Hotspot Selecting Patterns Based on GPS Data: A Case Study in Wuhan

Liu Liqun, Wu Chaozhong, Zhang Hui, Naji Hasan.A.H, Chu Wenhui, Atombo Charles

Water traffic simulation based on MAS in the bridge area of Yangtze River

Na Liu, Zhe Mao, Xiaopong Tong, Lingzhi Sang

Ship piloting risk decision-making method based on fault tree analysis

Wei hongbin

A Practical Method for Validating Data Quality by RSE Connectedness: A Case Study in China

Shuxian He, Jiangchen Li, Wei Xiong, Tony Z. Qiu

Simulation and Safety Analysis for Frame-type Movable Highway Barriers of Median Opening

Jun LI, Nengchao LYU, Ling QIN, Ying ZHOU

Numerical Simulation of the Flow and Phase Change Characteristics of Ice Particles-Seawater two-phase flow in Heat Exchanger of Polar Ship

Li Xu, Zhenfei Huang, Bing Tang, Jie Li

Intellectual Simulation Model for Transport Systems Management and Safety Database

Nina Krapukhina, Roman Senchenko

Effects of Lane Maintenance on Traffic Flow based on Cellular Automata Freeway Model
Xiaofeng Ma, Lin Zhou, Xiaoyu Liu…………………………………………………………..483

Short-Term Forecasting of Emerging On-Demand Ride Services

Jiaokun Liu, Erjia Cui, Haoqiang Hu, Xiaowei Chen, Xiqun (Michael) Chen,
Feng Chen………………………………………………………………………………….489

Vulnerability assessment of water transportation system based on entropy theory

Cong Liu, Yi Liu, Jingxian Liu, Zhao Liu………………………………………………496

Modelling the collision risk in the Yangtze River using Bayesian networks

Bing Wu, Likang Zong, Xinping Yan, Yang Wang, Carlos Guedes Soares………..503

Freeway Traffic Safety Performance Assessment Based On Fuzzy Interval Theory

Shi An, Xiaowei Hu, Xinyong Zhao………………………………………………………510

Evaluation on Low-Grade Highways Roadside Safety in Mountainous Area by
Projection Pursuit Model

Jian Wang, Xiaowei Hu, Tingting Dong, Lijing Yan……………………………………516

Long-Term Effect Analysis of Dynamic Speed Display Sign in Streets

Ryosuke ANDO, Koji NODA, Yasuhiro MIMURA, Motohiro YAMAZAKI, Jia
YANG, Hiroshi OGINO, Kiyohito TAKEUCHI, Norihiro IKEDA…………………..522

Research on Connected Vehicle Architecture Based on DSRC Technology

Wei Xiong, ShuXian He, Tony Z. Qiu……………………………………………………530

Truck Speed Characteristics Analysis of Typical Highway Segments Based on GPS
Data

Yanming DAI, Yue HU, Nengchao LYU………………………………………………535

A Optimization Method Used for Sailing Route of Solar Ship

Yan Zhang, Chengqing Yuan, Huiyuan Li, Tianyu Yang……………………………541

A method for constructing an actual virtual map of the road scene for recognition of
dangerous situations in real time

Nina Krapukhina, Nikolay Kamenov…………………………………………………..545

Modelling of Winter Road Surface Temperature (RST) - A GIS-Based Approach

Tae J. Kwon, Lian Gu………………………………………………………………………..551

A Novel Estimation Algorithm for Interpolating Ship Motion

Jie Xue, Chaozhong Wu, Zhijun Chen, Xiaoxuan Chen……………………………..557
Automated Extraction of Road Features using LiDAR Data: A Review of LiDAR applications in Transportation

Suliman Gargoum, Karim El-Basyouny

Study on Driver’s Preview Time Based on Field Tests

Da-wei Xing, Xian-sheng Li, Xue-lian Zheng, Yuan-yuan Ren, Yosuke Ishiwatari

Analysis of Driving Behavior at the Bridge-Tunnel Transition Section in Reduced Visibility Situations

Dianliang XIAO, Yong FANG, Yanning ZHANG, Zhongyin GUO

Intelligent Early Warning System of Operation Risk of Bridge-Tunnel Transition Section

Dianliang XIAO, Zichu ZHOU, Yong FANG, Zhongyin GUO

Integrated Scheduling Optimization of Yard Crane and Yard Truck in Ship-loading Operation

Pengliang Cao, Guiyan Jiang, Hongran Zhao

Verification Tests for the Behavioural Theory of Multi-Lane Traffic Flow at a Weaving Segment

Xu Wang, Lei Niu, Xuesong Gao, Rui Jiang, Tony Z. Qiu

Bayesian and Degradation data based Zero-failure Accelerated Life Demonstration Test for Electrical Products in High Speed Train System

Dan Xu, Zhixin Feng

Braking Assistance Algorithm Considering Driver Characteristics at Signalized Intersection

Yang Li, Lyhe Gao, Haipeng Wang, Jiandong Cao

Evaluation of Continuous Traffic Flow Running Rules with Psychological Factors of Drivers and Automated Driving Environment

Yizhe Wang, Xiaoguang Yang, Yangdong Liu

Speed Guidance and Transit Signal Control Method for Advanced Public Transportation System

Hailun Liang, Jin Wei
A bandwidth maximization model for coordinated tramcar signal priority control alone arterials

Huazhong Zhu, Cui Hang, Xiaoguang Yang

Analysis of Public Transit Trip Chain of Commuters Based on Mobile Phone Data and GPS Data

Li Zhou, Yuxiong Ji, Yizhe Wang

Identifying Areas of High Risk for Collisions: a Canada-wide study of grade crossing safety

Shahram Heydari, Liping Fu, Lalita Thakali

Scheduling resources in a mobile photo enforcement program

Yang Li, Amy Kim, Karim El-Basyouny

Investigation of Pedestrians Crossing Behavior at Signalized intersections in China

Yao Wu, Jian Lu, Wanqiu Zhu, Yue Chen

The Time-varying Mesh Stiffness Modeling of Gear System with Spalling Defects in Different Positions

Yunxia Chen, Yi Jin, Rui Kang, Wenjun Gong, Yi Yang

Spatial Markov Chain Simulation Model of Accident Risk for Marine Traffic

S.Xuan, Y.Xi, C.Huang, S.Hu, L.Zhang

Dynamic Process Simulation of Ship Pilotage Risk at Harbour based on Transition Probability Model

S.P. Hu, C.H. Huang, Y.L. Guo, B. Li

The Analysis of Civil Aviation Incident Information based on Knowledge Map

Junjie Liu, Meiye Cui

Mitigation of cascading failure with dynamical flux removal

Wang Jiang, Zhang Limiao, Jiang Yinan, Li Daqing, Kang Rui

A Study on Driver Fatigue Recognition Based on SVM Method

Zhidong YOU, Jinchong ZHANG, Hui ZHANG, Chaozhong WU, Yan GAO,

Muxiong ZHOU

Pre-warning System Analysis on Dynamic Risk of Ship Collision with Bridge at Restricted Waters
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Interactive Platform for Matching Design of Ship Screw Propeller and Diesel Engine Based on Internet Plus</td>
<td>698</td>
</tr>
<tr>
<td>Wearing Condition Trend Prediction of Turbine Machine Based on Multi-Parameter Joint Monitoring of Turbine Oil</td>
<td>704</td>
</tr>
<tr>
<td>Simulation on Occupant Evacuation during Aircraft Emergency Based on Cellular Automata</td>
<td>711</td>
</tr>
<tr>
<td>The Software Design of Energy Efficiency Data Acquisition And Management of Operational ships</td>
<td>716</td>
</tr>
<tr>
<td>Injury Severity Analysis and Driver Actions in Passenger Vehicle-Truck Collisions</td>
<td>722</td>
</tr>
<tr>
<td>Design of a Real-time Ship Fuel Consumption Monitoring System with Self-checking Function</td>
<td>727</td>
</tr>
<tr>
<td>Use of 4E framework in performance evaluation of VTS operation</td>
<td>735</td>
</tr>
<tr>
<td>A model for predicting human life safety in air-pocket of capsizing ship</td>
<td>748</td>
</tr>
<tr>
<td>A probabilistic model of ship performance in ice based on full-scale data</td>
<td>752</td>
</tr>
<tr>
<td>Collision risk assessment of LNG filling barges</td>
<td>759</td>
</tr>
<tr>
<td>Impacts of Night-time Work-zone Speed Restrictions on Freeway Speed- A Case Study on Edmonton, Canada-</td>
<td>767</td>
</tr>
<tr>
<td>Study on evacuation routes under unexpected event based on Petri net</td>
<td>767</td>
</tr>
</tbody>
</table>
Model Safety Standard of Railway Signaling System for Assessing the Conformity of Safety Critical Software Based Weighted Factors Analysis

Shuyuan Liu, Jiancheng Mu, A. G. Hessami, Datian Zhou

Continual Retiming of Traffic Signals Using Big Travel Time Data

Sajad Shiravi, Matthew Muresan, Liping Fu

The risk research of inland river LNG filling barge based on Spill simulation

Wang Zheng, Deng Jian, Shi Hongbin

A two-phase approach for inland container ship stowage on full route on Yangtze River

Jun Li, Yu Zhang, Sanyou Ji

A Dynamic Identification Method of Passenger Flow Congestion Risk in Rail Transit Hub Station Based on Grey Clustering

Qiang Tu, Jian-cheng Weng, Chang Wang

Risk Factor Analysis of Traffic Accident for Different Age Group based on Adaptive Boosting

Lihui Chen, Pin Wang

Optimizing the Vehicles Allocation of Multi-modal Freight Transportation Considering the Transshipment Delay Risk

Li Ping, Yang Jiaqi

An Algorithm for Vessel’s Missing Trajectory Restoration Based on Polynomial Interpolation

Haoran Du, Youan Xiao, Liyu Duan, Song Gao

Prediction of the amount of vessels arriving at inland port based on time series analysis

Li MING, Jing-xian LIU

Detection Method for Vehicles in Tunnels Based on Surveillance Images

Lili Dong, Li Qin, Wenhai Xu, Haitao Jiang

A Multilevel Fuzzy Comprehensive Evaluation Model for Operation Safety of the Large High-Speed Railway Passenger Station
Analysis of Safety Trend in Civil Aviation of China

The Impact of Centralized Cooperative Intersection Control on Traffic Flow Characteristics

Probabilistic modelling processes of mutual monitoring operators actions for transport systems

Optimization of sequence of performing heterogeneous repair work for transport systems by criteria of timeliness

Design and Implementation of an ARM-Based Embedded System for an Automatic Traffic Cone Placement and Retrieval Vehicle

Data Driven Analytics for School Location Impacting Urban Traffic Congestion

Quantitative Risk Assessment Method for Regional Port Major Hazard Installations and Its Application

A Design for AIS Data Warehouse of Traffic Flow

A Study of Micro-Simulation Uncertainty of Space Development Module of Baltimore Pecas Demo Model

Study on preparation process of a new UHMWPE/graphite/NBR water lubricated bearing material
Experimental Study on Resistance of Sea-River Bulk Carriers Model
Feng Zhou, Xincong Zhou, Jian Ji, Mingjie Zhong, Bin Zheng, Jian Huang

Grid-based Pavement Crack Analysis Using Deep Learning
Xianglong Wang, Zhaozheng Hu

Analysis of Pressure Response Imbalance of the Air Braking System of Vehicle and Its Influence on the Driving Stability
Li Fan, Jian Yang, Zhangyao Liao, Lili Xu

Simulation research on course keeping angle when ships are overtaking in heavy traffic waters
Xuedong Li, Jiezhe Geng, Yang Song, Jing Wu, Liansheng Xu, Chao Han

Multimodal Transport Routing Problem considering Transshipment and Accessibility: the case of the “One Belt One Road” Initiative
Qi Xu, Lixin Shen, Yanning Jiang, Zhihong Jin

iTAIS: A Novel Framework for Enhancing Traffic Safety
Yuan Xue, Lisa Fan, Andrew G. Liu

Deep Waterway Arrangement in Yangtze River
Hong Wan, Wenhao Li

Construction for Safety and Risk Prevention and Control System of Dangerous Chemicals Transportation in the Yangtze River
Hu Yuchang, Geng Jiezhe, Zhou Baoqing, Wang Guobo, Chen Fengyun, Xu Liansheng, WU Jing

The Impact of Information Suggestion Strategy on the Three-route System with a Speed Bottleneck Based on Cellular Automata Model
Wen Xiao, Yuguang Chen, Yaping Yang, Chao Yang

Design and verification of parking space detection based on AMR sensor
WAN Jian, XIE Bin

Freeway Incident Duration Prediction Using Bayesian Network
Hongtai Yang, Luou Shen, Yunchi Xiang, Zhihong Yao, Xiaohan Liu

Enhance the AIS data availability by screening and interpolation
Driving Experience on the Effectiveness of Advanced Driving Assistant Systems  

Nengchao LYU, Zhicheng DUAN, Lian XIE, Chaozhong WU

Marine Accident Analysis Based on Organizational Resilience  

Jinhui Huang, Yang Wang

Research on urban traffic safety planning with fuzzy methods based effectiveness evaluation: Case study of midland city in China  

Liang Jiang, Xinping Yan

Fast Self-localization of Autonomous Vehicles from Visual Map  

Yicheng Li, Zhaozheng Hu, Yuezhi Hu

Robust Road Lane Detection from Shape and Color Feature Fusion for Vehicle Self-Localization  

Hao Cai, Zhaozheng Hu, Gang Huang, Dunyao Zhu

Design and Performance Analysis of a Hydrodynamic Lubricated Conical Sliding Bearing  

Xingxin Liang, Xinping Yan, Wu Ouyang, Zhenglin Liu, Jian Wang

Friction and Wear Properties of a New Plastic Rubber Water-Lubricated bearing material  

Xincong Zhou, Jian Huang, Zhimin Yan, Feng Zhou, Jian Ji, Mingjie Zhong, Bin Zheng

Condition monitoring of PTFE composite material bearing through the correlation between lubricant condition and wear simulation  

Tao Guan, Zhipeng Hui, Yong Gao, Kun Yang

The Relationship Between Train Drivers’ Attention and Accident Involvement  

Bahareh Hani Tabai, Morteza Bagheri, Vahid Sadeghi-Firuzabadi, Vahideh Shahidi

Comparing risks associated with crude oil transportation by rail, road and pipeline-Case study: Lac Megantic  

Seyyede Sara Heidari Yazdi, Morteza Bagheri
Modeling the Severity of Highway-Railway Grade Crossing Accidents involving Hazardous Materials: Case Study

Maryam Azadi, Morteza Bagheri

Identifying vehicle driver injury severity factors at highway-railway grade crossings using data mining algorithms

Haniyeh Ghomi, Morteza Bagheri, Liping Fu, Luis F. Miranda-Moreno

Level of comfort, and safety in railway transit

Luis Amador-Jimenez, Alireza Mohammadi, Fuzhan Nasiri

Wi-Fi and Vision Integrated Localization for Reverse Vehicle-Searching in Underground Parking Lot

Gang Huang, Zhaozheng Hu, Hao Cai

Relationships Among Detector Volume, Speed and Occupancy along Signalized Arterials

Jingcheng Wu, Xiao Qin, Alan J. Horowitz, Xia Jin

Spatial Characteristics of Merging Decision Making and Implementation at Highway Work Zone

Li Li, Dong Zhang

An Approach for Road, Railway, Pipeline Routing Problem in Hazardous Materials Transportation Using Multiple Criteria

Zahra Bahramian, Morteza Bagheri

Risk assessment framework for fire accidents in the ship engine room

Likang Zong, Bing Wu, Yang Wang

Marine Engine Rotational Speed Control Automatic System Based on Fuzzy PID Logic Controller

Tien Anh Tran, Xinping Yan, Yupeng Yuan

Public Transport induced demand estimation with application of Fuzzy Inference System

Andrzej Szarata

The legibility of LED traffic guide signs in urban tunnels

Yatian PU, Feng CHEN, Xiaodong PAN, Jieyu LIANG, Haorong PENG, Yanyi
Comparison and Analysis of the Results of Grillage Method and Single Beam Method to Continuous Box Girder with Variable Width

Ying Zhou, Yasha Ji

Motorcycle Traffic Violation Analysis and Selection of Key Road Sections for Monitoring in Guangzhou

Yuanchang Deng, Huiqin Yang

An overview of prospect theory in Travel choice behavior under risk

Guantao Ai, Yuanchang Deng

A Comparative Study on Traffic Violation Level Prediction Using Different Models

Jieling Jin, Yuanchang Deng

Survey of Mobile Phone Use in Driving and Safety Suggestion

Qi Liu, Yuanchang Deng

Dynamic Traffic Assignment Model based on Mixed-Logit

Chen Maolu, Chen Lingjuan, Wang Zengqiang

Towards Understanding the Impact of Human Mobility Patterns on Taxi Drivers’ Income Based on GPS Data: A Case Study in Wuhan - China

Hasan.A.H NAJI, Chaozhong WU, Hui ZHANG, Liqun LI

The Design and Optimization of Overlapping Phase Combination for Isolated Intersection

Zijun Liang, Hong Chen, Wei Fang, Chenchen Qin, Yulin Zhou

Study on Impact Factors and Calculation Model of UKC in Bohai Sea

Haisen Tong, Jingxian Liu, Cong Liu, Lin Yan, Youxi Hu

The Design and Development of a Real-time Navigation Safety Monitoring System for LNG-Fuelled Ship in Inland Water

Deng Jian, Hua Xinpei, Luo Shengxiang, Ma Jie, Zhuang Yuan

A Variational Approach for Adaptive Underwater Sonar Image Denoising

Deshan Chen, XuanXuan Teng, Xiumin Chu, Feng Ma

The research on rule-based method to automatic risk identification for shipbuilding inspection
Cao Jiyan, Fan Shidong, Lu Wen

Examining contributing factors on Driving Risk of Naturalistic Driving using K-means Clustering and Ordered Logit Regression

Hasan.A.H NAJI, Chaozhong WU, Nengchao LYU, Hui ZHANG

Driving Performance Characteristics Affected by Road Edge Rate Marking on Bridge Section

Fangwu LI, Jiacai ZHOU, Nengchao LYU