

ISSN 1009-6744

CN 11-4520/U

交通运输 系统工程与信息

JOURNAL OF TRANSPORTATION

SYSTEMS ENGINEERING AND INFORMATION TECHNOLOGY

2018年8月

August, 2018

第18卷 第4期

Vol.18 No.4

交通运输系统工程与信息

第十八卷

第四期

二〇一八年八月

中国系统工程学会主办

科学出版社出版

ISSN 1009-6744



万方数据

2001年创刊

EI Compendex美国《工程索引》收录
中国科学引文数据库(CSCD)收录
《中文核心期刊要目总览》(北京大学图书馆)收录
中国科技论文与引文数据库(CSTPCD)收录
中国学术期刊综合评价数据库来源期刊
《中国学术期刊文摘(CSAC)》收录
中国核心期刊(遴选)数据库收录
中国知识资源总库(CNKI)全文收录
万方数据—数字化期刊群全文收录
中文科技期刊数据库全文收录
SCOPUS文摘引文数据库收录

交通运输系统工程与信息(双月刊)

(JIAOTONG YUNSHU XITONG GONGCHENG YU XINXI)

第18卷 第4期 2018年8月

目次

决策论坛

- 服务雄安·交通光电网创新发展论坛——“交通7+1论坛”第五十一次会议 彭宏勤,张国伍(1)
- 保障公益性运输服务的铁路客票管理策略 韩舒怡,荣朝和(5)

综合交通运输体系论坛

- 绿色多式联运随机优化策略 李 珺,杨 斌,朱小林(11)
- 碳排放约束下我国航空公司全要素生产率研究 黄赶祥,景崇毅,王红岩(19)
- 基于广义出行费用的城市综合交通方式优势出行距离研究 范 琪,王 炜,华雪东,魏雪延,梁鸣璋(25)
- 基于Vine Copula的原油海运网络中节点连通可靠性研究 王 爽,吕 靖,赖成寿(32)

智能交通系统与信息技术

- 基于路面指纹的高精度车辆定位 王相龙,胡钊政,李祎承,黄 刚,蔡 浩(38)
- 面向智能交通的单目视觉测距方法研究 邹 斌,袁宇翔(46)
- 面向班型动态生成的地服人员排班算法 卢 敏,王 莉(54)
- 基于实时信息的公交运行速度控制策略与算法研究 严 海,刘润坤(61)
- 信号控制四路环形交叉口多进口协同放行方法 马新露,杨兴清(69)
- 逆向可变车道释放特性及其安全评价 曲昭伟,奇兴族,陈永恒,陶楚青,白乔文,刘芳宏(76)
- 不良交通流状态实时监测支持向量机模型算法研究 游锦明,方守恩,唐 棠,张兰芳(83)
- 基于时空聚类算法的轨迹停驻点识别研究 周 洋,杨 超(88)
- 带有最优流量记忆时间差的一类新格子模型 翟 聪,刘伟铭,黄 玲(96)

系统工程理论与方法

- 基于驻站和限流的组合公交控制策略研究 黄青霞,贾 斌,强生杰,肖 尧(103)
- 基于车站滞留风险的应急驻车点选址研究 刘 爽,支晓宇,陈绍宽,兴 妍(110)
- 考虑出行者损失厌恶的后悔随机用户均衡模型 赵 磊,关宏志,张新洁,赵鹏飞(116)
- 考虑随机路网能力退化的连续双参考点用户均衡模型 魏庆琦,肖 伟(123)
- 齐当别视觉下的出行方式偏好反转研究 张 年,罗 霞,邓 燕(130)
- 城市货运车辆选择行为模型及应用 张 戎,李 璐,简文良(135)
- 危险货物道路运输风险复杂系统及风险测度模型与应用——以液氯运输为例 王海星,梁倩倩(142)
- 滑动窗窗体长度及滑动步长对事故多发路段鉴别影响 孟祥海,张道玉,吴佩洁(148)
- 求解双目标带时间窗车辆路径问题的蚁群算法 柴 荻,何瑞春,苏江省,宋宇博,代存杰,马昌喜(156)
- 基于拉格朗日松弛的高速铁路列车运行图新增运行线局部调整模型 江 峰,倪少权,吕红霞(163)
- 铁路钢轨网格化维修规划优化编制模型 白 磊,贾传峻,李 擎,刘仍奎,孙全欣(171)
- 集装箱码头装船顺序和场桥行驶路径联合优化 郭文文,计明军,祝慧灵,王清斌(178)
- 航班延误信息下旅客选择行为模型及实证 江 红,任新惠(188)
- 基于Adaptive Lasso与RF的航班运行风险预测改进研究 王岩韬,陈冠铭,刘 毓,杨远浩,赵 航(194)
- 一种改进的民用航空网络空间脆弱性模型 李 航,胡小兵(202)

案例分析

- 基于小客车燃油核算模型的政策节能效果分析 刘宇环,姚思建,谷 岩,李 萌(209)
- 基于深度CNN-LSTM-ResNet组合模型的出租车需求预测 段宗涛,张 凯,杨 云,倪园园,SAURAB Bajgain(215)
- 基于AFC数据和RF模型的城轨车站服务功能分类 王子甲,刘海旭,TAKU Fujiyama(224)
- 高速公路ETC客户细分方法研究 钱 超,杨 孟,耿 健,许宏科(231)
- 基于多维数据的高速公路服务水平实时判别方法 赵文忠,耿立艳,梁毅刚,张占福(240)

第十届交通运输研究国际学术会议(ICTTS'2018)在北京召开 (239)

期刊基本参数 CN11-4520/U*2001*b*16*248*zh+en*P*¥ 20.00*3000*35*2018-08*n

TRANSPORTATION SYSTEMS ENGINEERING & INFORMATION TECHNOLOGY (BIMONTHLY)

Vol. 18 (August, 2018) No. 4

CONTENTS

Decisionmaking Forum

- Serving for Xiong'an New Area and Innovation of Traffic Photoelectric Network PENG Hong-qin, ZHANG Guo-wu(1)
Public Service Protection Constrained Railway Seat Inventory Control Policy HAN Shu-yi, RONG Chao-he(5)

Forum about Comprehensive Transportation System

- A Green Intermodal Transportation Stochastic Optimization Strategy LI Jun, YANG Bin, ZHU Xiao-lin(11)
Total Factor Productivity of China Airlines under Carbon Emission Constraints ... HUANG Gan-xiang, JING Chong-yi, WANG Hong-yan(19)
Dominant Transportation Distance for Multi Transportation Modes in Urban Integrated Transportation Network Based on General Travel Costs
..... FAN Qi, WANG Wei, HUA Xue-dong, WEI Xue-yan, LIANG Ming-zhang(25)
Connectivity Reliability of Nodes in the Maritime Transportation Network of Crude Oil Based on Vine Copulas
..... WANG Shuang, LV Jing, LAI Cheng-shou(32)

Intelligent Transportation System and Information Technology

- High Accuracy Vehicle Localization by Referring to Pavement Fingerprint
..... WANG Xiang-long, HU Zhao-zheng, LI Yi-cheng, HUANG Gang, CAI Hao(38)
High Precision Distance Measurement Based on Monocular Vision for Intelligent Traffic ZOU Bin, YUAN Yu-xiang(46)
Dynamic Group Generation for Airport Ground Staff Scheduling LU Min, WANG Li(54)
Bus Speed Control Strategy and Algorithm Based on Real-time Information YAN Hai, LIU Run-kun(61)
Multi-approach Collaborative Release Method of the Signalized Four-leg Roundabout MA Xin-lu, YANG Xing-qing(69)
Release Characteristics and Safety Evaluation of Intersection with Reversing Variable Lane
..... QU Zhao-wei, QI Xing-zu, CHEN Yong-heng, TAO Chu-qing, BAI Qiao-wen, LIU Fang-hong(76)
A Support Vector Machine Approach on Real-time Hazardous Traffic State Detection
..... YOU Jin-ming, FANG Shou-en, TANG Tang, ZHANG Lan-fang(83)
Anchors Identification in Trajectory Based on Temporospatial Clustering Algorithm ZHOU Yang, YANG Chao(88)
A Class of New Lattice Model with Consideration of the Optimal Current Changes with Memory
..... ZHAI Cong, LIU Wei-ming, HUANG Ling(96)

System Engineering Theory and Methods

- Integrated Bus Control Strategy Considering Holding and Limited-boarding ... HUANG Qing-xia, JIA Bin, QIANG Sheng-jie, XIAO Yao(103)
Emergency Bus Reserve Location Based on Risk Analysis of Passengers Stranded at Urban Rail Transit Station
..... LIU Shuang, ZHI Xiao-yu, CHEN Shao-kuan, XING Yan(110)
A Regret-based Stochastic User Equilibrium Model Considering Travelers' Loss Aversion.....
..... ZHAO Lei, GUAN Hong-zhi, ZHANG Xin-jie, ZHAO Peng-fei(116)
A User Equilibrium Model Considering a Degradable Transportation Network and Double Reference Points ... WEI Qing-qi, XIAO Wei(123)
Preference Reversals Phenomenon of Travel Mode under the Equate-to-differentiate Interpretation
..... ZHANG Nian, LUO Xia, DENG Yan(130)
Urban Freight Vehicle Type Choice Model and Application ZHANG Rong, LI Lu, JIAN Wen-liang(135)
Complex System of the Risk on Dangerous Goods Transportation & Risk Assessment Model and Application: Take Liquid Chlorine as an
Example WANG Hai-xing, LIANG Qian-qian(142)
The Impact of Window Size and Sliding Length on the Results of Black Spots Identification
..... MENG Xiang-hai, ZHANG Dao-yu, WU Pei-jie(148)
An Ant Colony Optimization for the Bi-objective Vehicle Routing Problem with Time Windows on Multigraph
..... CHAI Huo, HE Rui-chun, SU Jiang-sheng, SONG Yu-bo, DAI Cun-jie, MA Chang-xi(156)
A High-speed Railway New-added Train Timetable Partial Adjustment Model Based on Lagrangian Relaxation
..... JIANG Feng, NI Shao-quan, LV Hong-xia(163)
Optimal Maintenance Planning Model for Railway Rail Grids BAI Lei, JIA Chuan-jun, LI Qing, LIU Reng-kui, SUN Quan-xin(171)
Joint Optimization of Loading Sequence and Yard Crane Travel Route in Container Terminals
..... GUO Wen-wen, JI Ming-jun, ZHU Hui-ling, WANG Qing-bin(178)
Passenger Choice Behavior Model and Empirical Study under Flight Delay Information JIANG Hong, REN Xin-hui(188)
Flight Operations Risk Improvement Prediction Based on Adaptive Lasso and RF
..... WANG Yan-tao, CHEN Guan-ming, LIU Yu, YANG Yuan-hao, ZHAO Hang(194)
An Improved Spatial Vulnerability Model for Civil Aviation Network LI Hang, HU Xiao-bing(202)

Cases Analysis

- Energy-saving Effect Analysis of Policies Based on Passenger Cars Fuel Accounting Model
..... LIU Yu-huan, YAO En-jian, GU Yan, LI Meng(209)
Taxi Demand Prediction Based on CNN-LSTM-ResNet Hybrid Depth Learning Model
..... DUAN Zong-tao, ZHANG Kai, YANG Yun, NI Yuan-yuan, SAURAB Bajgain(215)
Metro Station Classification by Service Function Based on AFC Data and RF Method WANG Zi-jia, LIU Hai-xu, TAKU Fujiyama(224)
Customer Segmentation for Expressway ETC System QIAN Chao, YANG Meng, GENG Jian, XU Hong-ke(231)
A Real-time Identification Method of Highway Service Level Based on Multi-dimension Data
..... ZHAO Wen-zhong, GENG Li-yan, LIANG Yi-gang, ZHANG Zhan-fu(240)