

ISSN 1671-1637
CN 61-1369/U
CODEN JYGXAS

交通运输工程学报

JOURNAL OF TRAFFIC AND TRANSPORTATION ENGINEERING

第 20 卷 2020
第 5 期

ISSN 1671-1637



9 771671 163202

Vol. 20 No. 5
中国 · 西安

目 次

• 综 述 •

- 超高强钢管混凝土研究综述 陈宝春,李 莉,罗 霞,韦建刚,赖秀英,刘君平,丁庆军,李 聪 (1)
粗颗粒盐渍土工程特性研究进展 杨晓华,张莎莎,刘 伟,余泽龙 (22)
铁路运营隧道检测技术综述 王石磊,高 岩,齐法琳,柯在田,李红艳,雷 洋,彭 湛 (41)
智能网联汽车协同生态驾驶策略综述 杨 澜,赵祥模,
吴国垣,徐志刚,MATTHEW Barth,惠 飞,郝 鹏,韩梦杰,赵周桥,房 山,景首才 (58)

• 道路与铁道工程 •

- 考虑界面初始黏结缺陷的CRTS II型板式无砟轨道温度变形 粟 森,朱琦治,戴公连,彭 晖 (73)
弹性支承块式无砟轨道冲击振动传递衰减特性试验
..... 曾志平,田春雨,陈 卓,王俊东,李世业,吴志鹏 (82)
环境风对高速铁路接触线波动速度的影响 陈小强,张 垚,王 英,王心仪,钟迪豪 (93)
格库铁路 HDPE 板栅栏有效防护距离 张 凯,王起才,张兴鑫,赵沛雯 (105)

• 载运工具运用工程 •

- 车身粘接结构断裂失效准则改进 那景新,娄 菲,纪俊栋,李 锋 (116)
基于电机动力吸振的高速列车蛇行运动控制 张卫华,罗 仁,宋春元,范 军 (125)
基于小滚轮高频激励的高速列车齿轮箱体振动试验 朱海燕,王超文,邬平波,曾 京,肖 乾 (135)
基于多尺度卷积类内迁移学习的列车轴承故障诊断
..... 沈长青,王 旭,王 冬,阙红波,石娟娟,朱忠奎 (151)
重载货车车钩准静态受力分析与纵向载荷分配规律
..... 朱 涛,尹敏轩,徐京涛,王 超,肖守讷,阳光武 (165)

• 交通运输规划与管理 •

- 公铁复合城际走廊多模式客流分担特征 徐明非,李昌铃,王元庆,周 伟 (176)
考虑个体驾驶速度偏差的车辆调度模型 张 娜,杨 琦,胡飞虎,蒋馨玉,刘永雄 (187)
人员密集型地铁车站安全风险评价方法 汪益敏,罗 跃,于 恒,陈嘉诚,黄 鑫 (198)
客流特征视角下的轨道交通网络特征及其脆弱性 马超群,张 爽,陈 权,曹 慕,任 璐 (208)
基于行程多路径的航空公司航班频率优化 乐美龙,郑文娟,胡钰明 (217)

• 交通信息工程及控制 •

- 基于UKF的数字轨道地图的三维线路生成方法 陶维杰,蔡伯根,刘 江,王 剑,上官伟 (227)

JOURNAL OF TRAFFIC AND TRANSPORTATION ENGINEERING

Vol. 20 No. 5(Sum 107)

Oct. 2020

CONTENTS

• Review •

Review on ultra-high strength concrete filled steel tubes
... CHEN Bao-chun, LI Li, LUO Xia, WEI Jian-gang, LAI Xiu-ying, LIU Jun-ping, DING Qing-jun, LI Cong (1)

Research progress on engineering properties of coarse-grained saline soil
..... YANG Xiao-hua, ZHANG Sha-sha, LIU Wei, YU Ze-long (22)

Review on inspection technology of railway operation tunnels
..... WANG Shi-lei, GAO Yan, QI Fa-lin, KE Zai-tian, LI Hong-yan, LEI Yang, PENG Zhan (41)

Review on connected and automated vehicles based cooperative eco-driving strategies
..... YANG Lan, ZHAO Xiang-mo, WU Guo-yuan, XU Zhi-gang,

MATTHEW Barth, HUI Fei, HAO Peng, HAN Meng-jie, ZHAO Zhou-qiao, FANG Shan, JING Shou-cai (58)

• Road and railway engineering •

Temperature deformation of CRTS II slab ballastless track considering interfacial initial bond defects
..... SU Miao, ZHU Qi-zhi, DAI Gong-lian, PENG Hui (73)

Test on impact vibration transmission and attenuation characteristics of low vibration track
..... ZENG Zhi-ping, TIAN Chun-yu, CHEN Zhuo, WANG Jun-dong, LI Shi-ye, WU Zhi-peng (82)

Influence of environmental wind on fluctuation velocity of contact wire of high-speed railway
..... CHEN Xiao-qiang, ZHANG Xi, WANG Ying, WANG Xin-yi, ZHONG Di-hao (93)

Effective protection distance of HDPE board fence in Golmud-Korla Railway
..... ZHANG Kai, WANG Qi-cai, ZHANG Xing-xin, ZHAO Pei-wen (105)

• Transportation vehicle engineering •

Improvement of fracture failure criterion of body adhesive structure ... NA Jing-xin, LOU Fei, JI Jun-dong, LI Feng (116)
Hunting control of high-speed train using traction motor as dynamic absorber

..... ZHANG Wei-hua, LUO Ren, SONG Chun-yuan, FAN Jun (125)

High-speed train gearbox housing vibration test based on small roller high-frequency excitation
..... ZHU Hai-yan, WANG Chao-wen, WU Ping-bo, ZENG Jing, XIAO Qian (135)

Multi-scale convolution intra-class transfer learning for train bearing fault diagnosis
..... SHEN Chang-qing, WANG Xu, WANG Dong, QUE Hong-bo, SHI Juan-juan, ZHU Zhong-kui (151)

Quasi-static force analysis and longitudinal load distribution law of heavy haul freight coupler
..... ZHU Tao, YIN Min-xuan, XU Jing-tao, WANG Chao, XIAO Shou-ne, YANG Guang-wu (165)

• Transportation planning and management •

Multi-mode passenger flow sharing characteristics of highway-rail composite intercity corridor
..... XU Ming-fei, LI Chang-ling, WANG Yuan-qing, ZHOU Wei (176)

Vehicle scheduling model considering individual driving speed deviation
..... ZHANG Na, YANG Qi, HU Fei-hu, JIANG Xin-yu, LIU Yong-xiong (187)

Evaluation method of security risk on crowded metro station
..... WANG Yi-min, LUO Yue, YU Heng, CHEN Jia-cheng, HUANG Xin (198)

Characteristics and vulnerability of rail transit network based on perspective of passenger flow characteristics
..... MA Chao-qun, ZHANG Shuang, CHEN Quan, CAO Rui, REN Lu (208)

Airline flight frequency optimization based on multiple travel paths
..... LE Mei-long, ZHENG Wen-juan, HU Yu-ming (217)

• Traffic information engineering and control •

UKF-based three-dimensional track generation method for digital track map
..... TAO Wei-jie, CAI Bai-gen, LIU Jiang, WANG Jian, SHANGGUAN Wei (227)