

ISSN 1001-8360

CN 11-2104/U

CODEN TIXUF5

2021 - 08

铁道学报

铁道学报

JOURNAL OF THE CHINA RAILWAY SOCIETY

第 43 卷 第 8 期 Vol. 43 No. 8



中国铁道学会主办



第四十三卷

第八期

二〇二一年八月

铁道学报

TIEDAO XUEBAO

第 43 卷 第 8 期 2021 年 8 月
目 次

铁道运输

- 高速铁路车站高峰时段通过能力计算方法 熊亚, 李海鹰, 廖正文, 王莹, 牛鑫涛(1)
基于面部特征的高速铁路调度员疲劳程度判定方法研究 张光远, 胡晋, 章子睿, 胡悦, 张帆(10)

铁道机车车辆、电气化

- 路况场景对高速铁路列车气动力特性影响规律研究 左太辉, 何旭辉, 邹云峰(18)
轨道车辆频变刚度转臂节点机理研究与验证 丁行武, 卜继玲, 李晓武, 杨欣, 程海涛, 邹波(27)
基于健壮稳定性的高速列车悬挂参数优化匹配方法 姚远, 李广, 梁树林, 张开林(35)
基于有限元的靴轨系统动力学建模及参数影响规律研究 张静, 左小红, 靳守杰, 冯超, 刘志刚(45)
电气化铁路轨道电路钢轨互阻抗计算研究 赵斌, 贾智, 王东, 欧静宁(54)
永磁同步电机无差拍预测电流控制策略研究 刘建强, 郝文瑾, 陈爱峰, 田峻红(62)

铁道通信信号、信息化

- 基于隐马尔可夫模型的 CTCS 无线通信系统入侵检测分析 谢雨飞, 田启川(73)
基于铁路运用场景的 GSM-R 系统无线信道资源估算方法研究 李坚, 陈晓辉, 陈建平(81)
基于模板匹配的转辙机缺口检测算法 李政锋, 林冬云, 彭侠夫, 邹朝圣(88)
一种基于 CNN-RNN 的社交媒体中突发事件感知方法 李小平, 白超(97)

铁道工程、工程管理

基于高低不平顺变化特征的轨道板拱起识别与预警模型研究

- 杨飞, 赵钢, 尤明熙, 梁雪江, 靳海涛, 李东昇(106)
轨道长波不平顺半测回法测量精度的研究(Ⅱ) 熊丽娟, 朱嫣, 朱洪涛, 王志勇, 吴维军, 魏晖(117)
京福高铁小半径曲线轨道底座板承载力服役状态可靠度评估 吴克非, 王森荣, 尹银艳, 蒋函珂(126)
基于区域特征的缺陷扣件视觉检测 范宏, 侯云, 李柏林, 熊鹰(132)
多年冻土区路基用太阳能吸附式制冷管的试验研究 刘建坤, 胡田飞, 郝中华(139)
基于应变指标的斜拉桥桥塔地震损伤演化 李小珍, 杨得海, 赵鲁峰, 辛莉峰, 刘鸣(147)
基于翘曲切向位移模式的矩形箱梁剪力滞效应分析 张玉元, 张元海, 张慧(157)
复杂艰险山区铁路工程建设管理关键影响因素研究 孙锐娇, 刘伊生, 甘旭阳(163)

JOURNAL OF THE CHINA RAILWAY SOCIETY

(Monthly)

Vol.43 No.8 August 2021

CONTENTS

- Calculation Method of Carrying Capacity High-speed Railway Station during Peak Period XIONG Ya, LI Haiying, LIAO Zhengwen, WANG Ying, NIU Xintao(1)
- Research on Method of Judgment of Fatigue Degree of High-speed Railway Dispatchers Based on Facial Features ZHANG Guangyuan, HU Jin, ZHANG Zirui, HU Yue, ZHANG Fan(10)
- Research on Effect of Infrastructure Scenario on Aerodynamic Characteristics of High-speed Railway Train ZUO Taihui, HE Xuhui, ZOU Yunfeng(18)
- Study and Verification of Mechanism of Frequency Varying Stiffness of Railway Vehicle Arm Joint DING Xingwu, BU Jiling, LI Xiaowu, YANG Xin, CHENG Haitao, ZOU Bo(27)
- Optimal Matching Method for Suspension Parameters of High-speed Train Bogie Based on Robust Hunting Stability YAO Yuan, LI Guang, LIANG Shulin, ZHANG Kailin(35)
- Dynamic Modeling and Parameter Analysis of Electric Shoegear and Conductor Rail System Based on Finite Element ZHANG Jing, ZUO Xiaohong, JIN Shoujie, FENG Chao, LIU Zhigang(45)
- Research on Calculation of Mutual Impedance of Rails in Electrified Railway Track Circuits ZHAO Bin, JIA Zhi, WANG Dong, OU Jingning(54)
- Research on Deadbeat Predictive Current Control of Permanent Magnet Synchronous Motor LIU Jianqiang, HAO Wenjin, CHEN Aifeng, TIAN Junhong(62)
- Intrusion Detection Analysis of CTCS Wireless Communication System Based on Hidden Markov Model XIE Yufei, TIAN Qichuan(73)
- Research on Method of Estimation of Wireless Channel Resources of GSM-R System Based on Railway Application Scenarios LI Jian, CHEN Xiaohui, CHEN Jianping(81)
- Detection Algorithm of Switch Machine Gap Based on Template Matching LI Zhengfeng, LIN Dongyun, PENG Xiafu, ZOU Chaosheng(88)
- Emergency Detection Method in Social Media Based on CNN-RNN LI Xiaoping, BAI Chao(97)
- Research on Identification and Early Warning Model for Track Slab Arch Based on Variation Characteristics of Longitudinal Irregularity YANG Fei, ZHAO Gang, YOU Mingxi, LIANG Xuejiang, JIN Haitao, LI Dongsheng(106)
- Study on Improving Accuracy of Track Long-wave Irregularity Measured by Semi-observation Method (II) XIONG Lijuan, ZHU Yan, ZHU Hongtao, WANG Zhiyong, WU Weijun, WEI Hui(117)
- Reliability Evaluation of Bearing Capacity of Ballastless Track Base Plate on Sharp Curve of Beijing—Fuzhou High-speed Railway WU Kefei, WANG Senrong, YIN Yinyan, JIANG Hanke(126)
- Visual Inspection of Defective Fasteners Based on Regional Features FAN Hong, HOU Yun, LI Bailin, XIONG Ying(132)
- Experimental Study on Solar Adsorption Refrigeration Tube for Subgrade Engineering in Permafrost Regions LIU Jiankun, HU Tianfei, HAO Zhonghua(139)
- Seismic Damage Evolution of Cable-stayed Bridge Tower Based on Strain Index LI Xiaozhen, YANG Dehai, ZHAO Lufeng, XIN Lifeng, LIU Ming(147)
- Analysis of Shear Lag Effect of Rectangular Box Girders Based on Warping Tangential Displacement Mode ZHANG Yuyuan, ZHANG Yuanhai, ZHANG Hui(157)
- Study on Key Environment Risk Factors of Complex Mountainous and Hazardous Railway Project SUN Ruijiao, LIU Yisheng, GAN Xuyang(163)