

ISSN 0258-2724  
CN 51-1277/U  
CODEN XJDXEW

# 西南交通大学学报

JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

年 月 第 卷 第 期



1

Ei Compendex 收录期刊

中文核心期刊

中国科学引文数据库(CSCD)来源期刊

中国科技论文统计源期刊

德国数学文摘(Zbl MATH)收录期刊

中国 成都

# 西南交通大学学报

第 57 卷 第 1 期 2022 年 2 月

## 目 次

基于手机传感器的车辆轨迹实时在线压缩方法	赵东保, 冯林林, 邓 悅, 等	1
半监督卷积神经网络的词义消歧	张春祥, 唐利波, 高雪瑶	11
网络环境下全景图和点云数据快速融合可视化方法	朱 军, 陈逸东, 张昀昊, 等	18
高铁信号系统安全关键功能测试建模方法	李 耀, 张晓霞, 郭 进, 等	28
含 EVs 的交直流混合微电网两阶段鲁棒调度优化	李 奇, 黄兰佳, 邱宜彬, 等	36
10 kV 交流 XLPE 电缆改为直流运行的热电耦合仿真	王启隆, 王国海, 陈向荣, 等	46
基于鲁棒接续时间的铁路空车调运优化	罗 霞, 胡剑鹏, 甘易玄	55
考虑列位合理占用的动车所调车作业计划编制优化	户佐安, 郑 磊, 周 姝	65
站内有车影响下的公交车自主停靠轨迹规划方法	马庆禄, 付冰琳, 冯 敏	74
基于摩擦自激理论的单侧钢轨波磨机理分析	肖 宏, 陈 鑫, 赵 越	83
铁路重载货车轮对弹性振动及其动态影响	刘鹏飞, 刘红军, 高 昊, 等	90
顺向斜风作用下桥面运动车辆气动特性试验研究	韩 旭, 向活跃, 李永乐	99
CRTS II型轨道板的高频振动疲劳特性分析	陈 醉, 刘学毅, 胡 颖, 等	106
跨座式单轨列车走行轮轮胎的不均匀磨损	仇成群, 李沛润, 陈 刁, 等	112
竹巴龙金沙江大桥水毁破坏机理	杨万理, 秦军武, 侯海林, 等	120
矩形混凝土空心墩延性抗震性能试验研究	邵长江, 漆启明, 韦 旺, 等	129
考虑轴力和剪切效应的盾构隧道纵向变形分析	杨成永, 马文辉, 费 腾, 等	139
超深层黄土滑坡作用下既有隧道结构体系力学特征	孙明磊, 朱永全, 李新志, 等	148
川藏铁路特殊气象环境对动车组隧道气动阻力的影响	凌 亮, 胡彦霖, 杨泽钰, 等	158
怒江某隐伏断层带岩体的力学参数取值	周洪福, 韦玉婷	166
场地条件校正的 PGA 放大系数简化估计方法	陈龙伟, 吴晓阳, 唐 川	173
地震动非参数化谱反演可靠性分析	王宏伟, 任叶飞, 温瑞智, 等	182
基于新型拉伸装置的根-土复合体抗拉强度	牛家永, 周永毅, 张建经, 等	191
不同脏污质对格栅加筋道砟性能的影响	陈 静, 高 睿, 刘洋泽鹏, 等	200
多孔沥青混合料的声学性能评价	李金凤, 何兆益, 孔 林	207
双肢冷弯 C 型钢蒙古包刚架的平面内稳定性	陈 明, 鲁卫波, 武志远, 等	215
带水平滑移层的空心砖填充框架抗震性能试验	苏启旺, 李 义, 卜庆涛, 等	223
GFRP 加固背栓式石材幕墙面板的抗弯性能	王作虎, 姚 渊, 高占广, 等	229

[期刊基本参数] CN 51-1277/U \* 1954 \* b \* A4 \* 234 \* zh \* P \* ¥ 12.00 \* 1000 \* 28 \* 2022-2

[本期责任编辑] 李永辉 唐 晴

# JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

Vol. 57 No. 1 Feb. 2022

## CONTENTS

Real-time Online Compression Method for Vehicle Trajectory Data Based on Smart Phone Sensors .....	ZHAO Dongbao, FENG Linlin, DENG Yue, et al	1
Word Sense Disambiguation Based on Semi-Supervised Convolutional Neural Networks .....	ZHANG Chunxiang, TANG Libo, GAO Xueyao	11
Visualization Method for Fast Fusion of Panorama and Point Cloud Data in Network Environment .....	ZHU Jun, CHEN Yidong, ZHANG Yunhao, et al	18
Testing Modeling Method for Safety Critical Function of High-Speed Railway Signal System .....	LI Yao, ZHANG Xiaoxia, GUO Jin, et al	28
Two-Stage Robust Scheduling Optimization of AC/DC Hybrid Microgrid with Electric Vehicles .....	LI Qi, HUANG Lanjia, QIU Yibin, et al	36
Thermo-Electric Coupling Simulation for 10 kV AC XLPE Cable in DC Operation .....	WANG Qilong, WANG Guohai, CHEN Xiangrong, et al	46
Optimization on Railway Empty Wagon Allocation Based on Robust Connecting Time .....	LUO Xia, HU Jianpeng, GAN Yixuan	55
Optimization of Shunting Operation Plan at Electric Multiple Units Depot Considering Train Position Proper Occupancy .....	HU Zuoan, ZHENG Lei, ZHOU Shu	65
Trajectory Planning Methods for Bus Autonomous Parking with Vehicle Occupancy in Station .....	MA Qinglu, FU Binglin, FENG Min	74
Analysis of Unilateral Rail Corrugation Mechanism Based on Friction Self-Excited Theory .....	XIAO Hong, CHEN Xin, ZHAO Yue	83
Elastic Vibration of Wheelset and Its Dynamic Effect on Railway Heavy-Haul Freight Wagon .....	LIU Pengfei, LIU Hongjun, GAO Hao, et al	90
Wind Tunnel Tests on Aerodynamic Characteristics of Moving Vehicles on Bridge Decks under Skew Tail-Wind .....	HAN Xu, XIANG Huoyue, LI Yongle	99
Fatigue Characteristic of High-Frequency Vibration for CRTS II Track Slab .....	CHEN Zui, LIU Xueyi, HU Ying, et al	106
Uneven Wear of Running Wheel Tires of Straddle Monorail Train .....	QIU Chengqun, LI Peirun, CHEN Zhao, et al	112
Failure Mechanism of Flood Damage to Jinsha River Bridge at Zhubalong .....	YANG Wanli, QIN Junwu, HOU Hailin, et al	120
Experimental Study on Ductile Seismic Performance of Rectangular Hollow Concrete Columns .....	SHAO Changjiang, QI Qiming, WEI Wang, et al	129
Analysis of Longitudinal Deformation of Shield Tunnel Structures with Consideration of Axial Force and Shear Effect .....	YANG Chengyong, MA Wenhui, FEI Teng, et al	139
Mechanical Characteristics of Existing Tunnel Structure Affected by Super Deep Loess Landslide .....	SUN Minglei, ZHU Yongquan, LI Xinzhi, et al	148
Effect of Sichuan-Tibet Railway Special Meteorological Environment on Tunnel Aerodynamic Drag of Electric Multiple Unit Train .....	LING Liang, HU Yanlin, YANG Zeyu, et al	158
Mechanical Parameters of Concealed Fault Rock Mass on Nujiang River .....	ZHOU Hongfu, WEI Yuting	166
Simplified Prediction Method for PGA Amplification Factors Corrected by Site Conditions .....	CHEN Longwei, WU Xiaoyang, TANG Chuan	173
Reliability Analysis on Non-Parametric Spectral Inversion of Seismic Ground Motion .....	WANG Hongwei, REN Yefei, WEN Ruizhi, et al	182
Tensile Strength of Root and Soil Composite Based on New Tensile Apparatus .....	NIU Jiayong, ZHOU Yongyi, ZHANG Jianjing, et al	191
Influence of Various Fouling Materials on Geogrid-Reinforced Ballast Performance .....	CHEN Jing, GAO Rui, LIU Yangzepeng, et al	200
Evaluation of Acoustic Performance of Porous Asphalt Concrete .....	LI Jinfeng, HE Zhaoyi, KONG Lin	207
Investigation on In-Plane Stability of Double-Limb Cold-Formed C-Shaped Steel Rigid Frame of Yurt .....	CHEN Ming, LU Weibo, WU Zhiyuan, et al	215
Experimental Study on Seismic Behavior of Fired Hollow Bricks Infilled Reinforced Concrete Frame with Horizontal Slip Layers .....	SU Qiwang, LI Yi, BU Qingtao, et al	223
Flexural Behavior of GFRP Reinforced Granite Cladding Panels with Undercut Bolt Anchorage .....	WANG Zuohu, YAO Yuan, GAO Zhanguang, et al	229