

目次

· 路面工程 ·

考虑纹理重构的道路养护吸能封层制备调控与功能评价 王朝辉,陈 谦,李彦伟,左志武,冯 雷,黄 帅(1)

基于等渗流速率的双层多孔沥青混合料性能优化设计 蔡 军,胡雨婷,邹鹏辉,李 希,钱国平,顾 凡(14)

粉煤灰复合磷酸镁水泥耐火性能研究 刘 飞,潘宝峰,周长俊,王宝民,聂嘉宇(26)

· 路基工程 ·

基于 MIC-XGBoost-LSTM 模型的边坡位移预测研究 许江波,侯鑫敏,吴 雄,刘一凡,孙国政(38)

地下水力管线外渗引起的道路塌陷机理模型试验 戴自立,彭凌豪,包扬娟(49)

土石混合体大型三轴剪切力学特性的颗粒级配效应 张 超,俞 缙,朱东平,龚晶汉,李哲涵(61)

· 桥梁工程 ·

公轨两用双层连续钢桁梁桥体系可靠度分析 王春生,何文龙,寇婷苇(73)

自带钢销型钢-UHPFRC 新型组合梁抗弯性能研究 贺耀北,沈秀将,邵旭东,陈 光,张永健,王小明,李文光(85)

黄茅海大桥扭转涡振气动措施展向布局优化 孙 颢,郭国和,朱 青,朱乐东,檀忠旭,权红烈(98)

斜拉索阻尼器减振参数优化局部刚度理论 禹见达,刘云燕,彭文林,陈 志(107)

大温差循环作用下 CFRP 板-钢界面黏结性能试验 任 翔,张泽亚,孙亚民,韩琇珠,陈少杰,周浩男(116)

斜坡段水平循环受荷单桩变形特性试验及分析模型 张 玲,岳 梢,赵明华,李 琼,彭文哲(128)

· 隧道工程 ·

盾构隧道纵向抗弯刚度双折减计算模型 叶肖伟,魏瑜均,陈云敏,范毅雄(139)

高寒隧道围岩蓄热型防冻系统及其防冻效果影响因素分析 张 瑶,夏才初,彭文波,张建新,胡云进(151)

盾构隧道开口对其纵向抗弯刚度的影响试验 黄大维,李 庆,彩国庆,姜 浩,罗仲睿(162)

· 交通工程 ·

融合机器学习与有序 Logistic 模型的无信控人车过街交互模式识别和安全分析 阎 莹,周 墨,袁华智,董 帅,陈信强(171)

考虑分布不确定性和相关性的跟驰行为建模及仿真验证 吴淑博,邹亚杰,钟心志,张云龙,汤书宁(184)

韧性视角下高速公路网络拥堵特性分析 徐鹏程,路庆昌,李 静,王世鑫,任永全,张 伟(196)

· 汽车工程 ·

端到端自动驾驶的研究进展及挑战 褚端峰,王如康,王竞一,花俏枝,陆丽萍,吴超仲(209)

基于优化熵算法的真实场景下电动汽车动力电池系统故障诊断 刘启全,马 建,赵 轩,张 凯,孟德安(233)

面向驾驶需求的多任务集成式决策控制方法 韩 玉,马晓磊,陶砚盟,于 滨(249)

CONTENTS

• Pavement Engineering •

- Preparation Regulation and Functional Evaluation of Road Maintenance Energy-absorbing Seal Considering Texture Reconstruction WANG Chao-hui, CHEN Qian, LI Yan-wei, ZUO Zhi-wu, FENG Lei, HUANG Shuai(1)
- Optimal Design for Double-layered Porous Asphalt Mixture Based on an Equivalent Layer Hydraulic Velocity Approach CAI Jun, HU Yu-ting, ZOU Peng-hui, LI Xi, QIAN Guo-ping, GU Fan(14)
- Investigation of Fire Resistance of Fly Ash Blended Magnesium Phosphate Cement LIU Fei, PAN Bao-feng, ZHOU Chang-jun, WANG Bao-min, NIE Jia-yu(26)

• Subgrade Engineering •

- Slope Displacement Prediction Using MIC-XGBoost-LSTM Model ... XU Jiang-bo, HOU Xin-min, WU Xiong, LIU Yi-fan, SUN Guo-zheng(38)
- Model Test Investigation on Mechanism of Road Collapse Induced by Underground Hydraulic Pipe Leakage DAI Zi-li, PENG Ling-hao, BAO Yang-juan(49)
- Particle Size Distribution Effect on Large-scale Triaxial Shear Mechanical Properties of Soil-rock Mixture ZHANG Chao, YU Jin, ZHU Dong-ping, GONG Jing-han, LI Zhe-han(61)

• Bridge Engineering •

- System Reliability Analysis of Rail-road Double-deck Continuous Steel Truss Bridge WANG Chun-sheng, HE Wen-long, KOU Ting-wei(73)
- Flexural Performance of New Composite Beams with In-built Dowel Hot-rolled Steel and Ultra-high Performance Fiber Reinforced Concrete HE Yao-bei, SHEN Xiu-jiang, SHAO Xu-dong, CHEN Guang, ZHANG Yong-jian, WANG Xiao-ming, LI Wen-guang(85)
- Spanwise Layout Optimization of Aerodynamic Countermeasures Against Torsional Vortex-induced Vibration on Huangmaohai Bridge SUN Hao, GUO Guo-he, ZHU Qing, ZHU Le-dong, TAN Zhong-xu, QUAN Hong-lie(98)
- Local Stiffness Theory of Damper Parameter Optimization for Cable Vibration Control YU Jian-da, LIU Yun-yan, PENG Wen-lin, CHEN Zhi(107)
- Study of Interfacial Bond Between Carbon Fiber Reinforced Polymer Plates and Steel Under Large Temperature Difference Cycles Action REN Xiang, ZHANG Ze-ya, SUN Ya-min, HAN Xiu-zhu, CHEN Shao-jie, ZHOU Hao-nan(116)
- Experimental and Analytical Model for Deformation Characteristics of a Cyclic Laterally Loaded Pile in Sloping Ground ZHANG Ling, YUE Shao, ZHAO Ming-hua, LI Qiong, PENG Wen-zhe(128)

• Tunnel Engineering •

- Model for Calculating Longitudinal Bending Stiffness of Shield Tunnels Considering Reduction in Longitudinal and Transverse Stiffnesses YE Xiao-wei, WEI Yu-jun, CHEN Yun-min, FAN Yi-xiong(139)
- Thermal Storage Antifreeze System and Its Influencing Factors Analysis in High Cold-region Tunnel ZHANG Yao, XIA Cai-chu, PENG Wen-bo, ZHANG Jian-xin, HU Yun-jin(151)
- Effect of Segment Ring Opening of Shield Tunnel on Its Longitudinal Bending Rigidity HUANG Da-wei, LI Qing, CAI Guo-qing, JIANG Hao, LUO Zhong-rui(162)

• Traffic Engineering •

- Combined with Machine Learning and Ordered Logistic Regression for Pattern Recognition and Safety Analysis in Pedestrian-vehicle Crossing Interaction at Unsignalized Crosswalks YAN Ying, ZHOU Mo, YUAN Hua-zhi, DONG Shuai, CHEN Xin-qiang(171)
- Car-following Behavior Modeling and Simulation Verification Considering Distribution Uncertainty and Correlation WU Shu-bo, ZOU Ya-jie, ZHONG Xin-zhi, ZHANG Yun-long, TANG Shu-ning(184)
- Analyzing Congestion Characteristic of Expressway Network from Perspective of Resilience XU Peng-cheng, LU Qing-chang, LI Jing, WANG Shi-xin, REN Yong-quan, ZHANG Wei(196)

• Automotive Engineering •

- End-to-end Autonomous Driving: Advancements and Challenges CHU Duan-feng, WANG Ru-kang, WANG Jing-yi, HUA Qiao-zhi, LU Li-ping, WU Chao-zhong(209)
- Fault Diagnosis of Power Battery System for Electric Vehicles Based on Optimized Entropy Algorithm in Real Scenarios LIU Qi-quan, MA Jian, ZHAO Xuan, ZHANG Kai, MENG De-an(233)
- Multi-task Integrated Driving Decision and Control Method Oriented to Driving Demands HAN Yu, MA Xiao-lei, TAO Yan-meng, YU Bin(249)