

目次

· 长大桥梁健康运维 ·

- 斜拉桥塔-索-梁-阻尼器耦合振动下索力识别方法研究 骆兰迎,杜彦良,伊廷华,曲春绪,赵盛杰,杨万桥(1)
- 基于斜拉桥“多测点温度-索力”非线性建模的索力预测与异常评估 李金鑫,伊廷华,李文杰,过超,李冲(11)
- 基于变分异方差高斯过程的桥梁温致应变概率预测 马亚飞,熊姝雯,章拔超,黄凯楠,王磊(24)
- 基于增强功率谱衰减法的桥梁模态参数识别研究 封周权,石双发,张吉仁,毛幸全,景强,温青,华旭刚(36)
- 基于星载 InSAR 技术的城市桥梁群结构变形识别与状态评估研究 周云,魏子青,郝官旺,邹少豪,余加勇(49)
- 虚拟-现实场景迁移的桥梁主动防船撞目标跟踪检测方法研究 廖睿轩,王浩,张一鸣,茅建校,王旭(65)
- 基于 YOLOv26-CABU-Net 的钢结构螺栓松动智能检测方法 蒋田勇,龚军,喻晨宇,刘小兴,王磊(76)
- 基于 SAM2 的桥梁结构裂缝零样本分割方法及模型泛化性能研究 罗纯坤,姚志安,华旭刚,封周权,郭鹏伟,陈政清(94)
- 多激光投影辅助的桥梁无标靶无人机位移测量方法 王灿,万华平,王宁波(108)
- 桥梁缆索锚固体系腐蚀时变特性及耐腐蚀性能 施洲,王驰,李英铭,赵旭波,沈锐利,黄李骥,么超逸(120)
- 钢桥面板疲劳裂纹检测履带式攀爬机器人研发 张丰宇,周焕新,彭卫兵,顾民杰,程斌(132)
- 激励线圈内置的电磁弹式体外预应力束脱锚监测方法 段元锋,郑伟,章红梅,段元昌,屠旭阳,方明山(141)
- 变幅疲劳荷载下 CFRP 加固钢梁疲劳性能研究 余倩倩,冯嘉杰(153)

· 路基工程 ·

- 单侧堆载下被动负斜桩工程特性试验 周德泉,王创业,周毅,夏旺,朱沁,杨颜齐(164)
- 工程泥浆絮凝-固化-压滤复合处理工艺试验 王军,运要举,董凯旋,葛苗苗,朱萧霄,符洪涛(176)
- 静动荷载下公路超大跨径管拱形钢波纹管涵洞的力学特性 魏进,卞海丁,谢永利,丁彪,何旭,郭海滨,王锦涛(190)
- 考虑初始状态和主应力轴旋转效应的粉土非正交弹塑性本构模型 王钰珂,蒋睿,周森森,孙逸飞(204)
- 高原地区岩堆边坡降雨失稳机理及工程防护的模型试验 薛志佳,李纯亮,卢啸,魏浩然,李根海,刘丛赫,晏长根(215)

· 交通工程 ·

- 车路双视角下货车编队行驶发展现状及关键问题 黄优,杨鑫,刘朝晖,张鑫,王瑞麟(235)
- 基于旅客模拟寻路试验的综合客运枢纽引导标识优化与效用评估方法 翁剑成,周慧缘,林鹏飞,李同飞,柴娇龙,陈旭蕊(258)
- 数据-模型驱动下面向多性能目标的智能网联车辆协同控制 郑元,余文昊,李深,刘擎超,李萌,冉斌(272)
- 高(快)速路环境过渡路段参数化表征方法及关键设计指标 葛洪成,郭忠印,荆迪菲,宋灿灿(289)

· 汽车工程 ·

- 重型载货汽车整车制动热衰退演变过程试验 史培龙,刘茂森,郭旭,薛紫薇,赵轩(306)
- 质心安全域约束下的异物覆盖深坑路面车身姿态控制 王建涛,王启军,王兴宇,杨超,张利鹏(318)
- 电磁馈能悬架双模式变参数控制研究 陆佳瑜,吴昊东,李波,解晓璇,谭草,张惠超(332)
- 角模块架构电动汽车单轮行驶故障底盘协同容错控制 刘帅帅,张利鹏,马浩然,王兴宇,张俊达,赵明慧,甄龙信(350)
- 密集交互场景下基于风险感知与时空图网络的车辆分层轨迹规划 陈博闻,郭凤香,张景,李春宇,陈斌,钟华旭,邓传富,陈峰(361)

CONTENTS

• Special Column on Health Operation and Maintenance of Long-span Bridges •

- Cable Force Identification of Cable-stayed Bridges Under Coupled Vibration of Tower-cable-beam-damper System
..... LUO Lan-ying, DU Yan-liang, YI Ting-hua, QU Chun-xu, ZHAO Sheng-jie, YANG Wan-qiao(1)
- Cable Force Prediction and Abnormality Assessment for Cable-stayed Bridges via Nonlinear Modeling of “Multiple Temperature-cable Force”
..... LI Jin-xin, YI Ting-hua, LI Wen-jie, GUO Chao, LI Chong(11)
- Probability Prediction for Bridge Temperature-induced Strain Based on Variational Heteroscedastic Gaussian Process
..... MA Ya-fei, XIONG Shu-wen, ZHANG Ba-chao, HUANG Kai-nan, WANG Lei(24)
- Damping Identification in Bridges Using an Enhanced Power Spectrum Decrement Method
..... FENG Zhou-quan, SHI Shuang-fa, ZHANG Ji-ren, MAO Xing-quan, JING Qiang, WEN Qing, HUA Xu-gang(36)
- Structural Deformation Identification and Condition Assessment of Urban Bridge Groups Based on Spaceborne InSAR
..... ZHOU Yun, WEI Zi-qing, HAO Guan-wang, ZOU Shao-hao, YU Jia-yong(49)
- Virtual-to-real-world Transfer-based Ship Detection and Tracking Methods for Avoiding Ship-bridge Collisions
..... LIAO Rui-xuan, WANG Hao, ZHANG Yi-ming, MAO Jian-xiao, WANG Xu(65)
- Intelligent Detection Method for Bolt Loosening Based on YOLOv26-CABU-Net Model
..... JIANG Tian-yong, GONG Jun, YU Chen-yu, LIU Xiao-xing, WANG Lei(76)
- Zero-shot Segmentation Method and Its Generalization Performance for Bridge Structural Cracks Based on Visual Foundation Model SAM2
..... LUO Chun-kun, YAO Zhi-an, HUA Xu-gang, FENG Zhou-quan, GUO Peng-wei, CHEN Zheng-qing(94)
- A Target-free UAV-based Approach for Bridge Displacement Measurement Aided by Multi-laser Projection
..... WANG Can, WAN Hua-ping, WANG Ning-bo(108)
- Time-varying Corrosion Evolution Characteristics and Corrosion Resistance of Cable Anchorage System of Bridges
..... SHI Zhou, WANG Chi, LI Ying-ming, ZHAO Xu-po, SHEN Rui-li, HUANG Li-ji, YAO Chao-yi(120)
- Research and Development of Tracked Climbing Robot for Fatigue Crack Detection of Steel Bridge Decks
..... ZHANG Feng-yu, ZHOU Huan-xin, PENG Wei-bing, GU Min-jie, CHENG Bin(132)
- Elasto-magneto-electric (EME) Method with Built-in Excitation Coil for Monitoring Tendon-anchor Slippage of External Prestressed Steel Tendons
..... DUAN Yuan-feng, ZHENG Wei, ZHANG Hong-mei, DUAN Yuan-chang, TU Xu-Yang, FANG Ming-shan(141)
- Study on Fatigue Performance of CFRP-strengthened Steel Beams Under Variable Amplitude Fatigue Loading YU Qian-qian, FENG Jia-jie(153)

• Subgrade Engineering •

- Experiment on Engineering Characteristics of Passive Negative Batter Pile with Single Lateral Surcharge
..... ZHOU De-quan, WANG Chuang-ye, ZHOU Yi, XIA Wang, ZHU Qin, YANG Yan-qi(164)
- Experimental Study on Composite Treatment Process of Flocculation-curing-pressure Filtration for Engineering Slurry
..... WANG Jun, YUN Yao-ju, DONG Kai-xuan, GE Miao-miao, ZHU Xiao-xiao, FU Hong-tao(176)
- Mechanical Characteristics of Highway Large-span Pipe-arch Corrugated Steel Plate Culvert Under Compaction and Live Loads
..... WEI Jin, BIAN Hai-ding, XIE Yong-li, DING Biao, HE Xu, GUO Hai-bin, WANG Jin-tao(190)
- Non-orthogonal Elastoplastic Constitutive Model of Silt Considering Initial State and Principal Stress Rotational
..... WANG Yu-ke, JIANG Rui, ZHOU Sen-sen, SUN Yi-fei(204)
- Model Test on Instability Mechanism and Engineering Protection of Talus Slopes Under Rainfall in Plateau Areas
..... XUE Zhi-jia, LI Chun-liang, LU Xiao, WEI Hao-ran, LI Gen-hai, LIU Cong-he, YAN Chang-gen(215)

• Traffic Engineering •

- Development Status and Key Issues of Truck Platooning from Vehicle-road Dual Perspective
..... HUANG You, YANG Xin, LIU Zhao-hui, ZHANG Xin, WANG Rui-lin(235)
- Passenger Simulation-based Pathfinding Method for Optimizing and Evaluating Effectiveness of Wayfinding Signage in Integrated Transport Hubs
..... WENG Jian-cheng, ZHOU Hui-yuan, LIN Peng-fei, LI Tong-fei, CHAI Jiao-long, CHEN Xu-rui(258)
- Data-model Driven Collaborative Control for Connected and Automated Vehicles Toward Multi-performance Objectives
..... ZHENG Yuan, YU Wen-hao, LI Shen, LIU Qing-chao, LI Meng, RAN Bin(272)
- Parametric Characterization Method and Key Design Indicators for Environmental Transition Sections of Expressways and Freeways
..... GE Hong-cheng, GUO Zhong-yin, JING Di-fei, SONG Can-can(289)

• Automotive Engineering •

- Experimental on Braking Thermal Decay Evolution Mechanism for Heavy-duty Vehicles
..... SHI Pei-long, LIU Mao-sen, GUO Xu, XUE Zi-wei, ZHAO Xuan(306)
- Vehicle Attitude Control on Potholed Roads Covered by Foreign Objects Under Centroid Safety Domain Constraints
..... WANG Jian-tao, WANG Qi-jun, WANG Xing-yu, YANG Chao, ZHANG Li-peng(318)
- Research on Dual-mode Variable-parameter Control for Electromagnetic Energy Regeneration Suspension
..... LU Jia-yu, WU Hao-dong, LI Bo, XIE Xiao-xuan, TAN Cao, ZHANG Hui-chao(332)
- Chassis Coordinated Fault-tolerant Control for Corner Module Architecture Electric Vehicle Under Single-wheel Driving Faults
..... LIU Shuai-shuai, ZHANG Li-peng, MA Hao-ran, WANG Xing-yu, ZHANG Jun-da, ZHAO Ming-hui, ZHEN Long-xin(350)
- Hierarchical Trajectory Planning via Risk Perception and Spatial-temporal Graph Networks in Dense Interaction Scenarios
..... CHEN Bo-wen, GUO Feng-xiang, ZHANG Jing, LI Chun-yu, CHEN Bin, ZHONG Hua-xu, DENG Chuan-fu, CHEN Zheng(361)