

目次

• 综合交通枢纽运行组织与智能服务专栏 •

基于文献计量的多式联运物流工程研究综述 ..... 杨忠振,张尔卓,杜怡颖,徐志刚(1)

基于数据驱动的路网连续交通流短时预测方法综述 ..... 刘伟,钟灿,曹文明(24)

综合客运枢纽公共交通低可达区域及致因识别方法 ..... 陈恩惠,季柯羽,程龙,张文波,滕靖(44)

枢纽机场电动摆渡车多运营商协作调度模型 ..... 包丹文,曲畅,周佳怡(61)

港口群协同布局评估指标体系构建及深圳港实践探索 ..... 黄启翔,江志彬(79)

基于行为表征空间关联网络的综合交通枢纽客流短时预测框架  
..... 戴智丞,李得伟,李华,徐恩华,张若楠(94)

面向城市低空物流的多层异质起降场点网络协同规划 ..... 冯棣坤,张洪海,华明壮,狄娟,单逸轩(110)

网约车协同服务下综合客运枢纽定制公交接驳线路优化方法  
..... 程龙,王宇轩,肖光涵,张明业,杨敏(125)

考虑分层需求的干支通多层航空运输网络优化模型 ..... 姜雨,刘洪阳,李焱璐,原野,薛清文(140)

时变需求下综合客运枢纽集群对外交通网络韧性评估方法 ..... 杨扬,陈君婷,姚恩建,刘冬梅(155)

• 交通基础设施工程 •

寒区深埋隧道衬砌结构和围岩沿径向年周期性温度场简化解析解  
..... 赵鹏宇,陈建勋,罗彦斌,杨典光,范文杰,刘吉祥(170)

考虑在役桩牵制效应和土体刚度硬化的隧道开挖位移响应计算  
..... 黄明,张成昭,赖丰文,路遥,魏巍(186)

预成孔植入大直径PRC管桩水平承载特性现场试验  
..... 任玉波,王苗苗,田叶青,谢宏丽,马凯,周志军,许超(198)

不同破坏模式下香根草根-红黏土根土复合体剪切特性试验 ..... 方薇,刘火,刘恬,王艺伟(210)

小样本条件下灌入式沥青混凝土断面异相材料图像高效分割方法 ..... 白桃,詹翔洋,顾凡(225)

## CONTENTS

### • Special Column on Operation Organization and Intelligent Services of Integrated Transportation Hubs •

Review of multimodal transport logistics engineering based on bibliometrics

..... YANG Zhong-zhen, ZHANG Er-zhuo, DU Yi-ying, XU Zhi-gang(1)

Review of data-driven short-term prediction methods for continuous traffic flow in road networks

..... LIU Wei, ZHONG Can, CAO Wen-ming(24)

Method for identifying low-accessibility areas and their contributing factors in public transit accessibility to integrated passenger

transportation hubs ..... CHEN En-hui, JI Ke-yu, CHENG Long, ZHANG Wen-bo, TENG Jing(44)

Multi-operator collaborative scheduling model for electric aprons huttle buses at hub airports ..... BAO Dan-wen, QU Yang, ZHOU Jia-yi(61)

Construction of evaluation index system for collaborative layout of port clusters and practical exploration of Shenzhen Port

..... HUANG Qi-xiang, JIANG Zhi-bin(79)

Short-term passenger flow prediction framework for comprehensive transportation hub based on behavioral representation spatial

correlation network ..... DAI Zhi-cheng, LI De-wei, LI Hua, XU En-hua, ZHANG Ruo-nan(94)

Multi-layer heterogeneous take-off and landing site network collaborative planning for urban low-altitude logistics

..... FENG Di-kun, ZHANG Hong-hai, HUA Ming-zhuang, DI Juan, SHAN Yi-xuan(110)

Optimization method of customized bus feeder routes at comprehensive transport hubs under ride-hailing collaboration

..... CHENG Long, WANG Yu-xuan, XIAO Guang-han, ZHANG Ming-ye, YANG Min(125)

Optimization model for trunk-regional-general hierarchical air transportation network with stratified demand

..... JIANG Yu, LIU Hong-yang, LI Han-lu, YUAN Ye, XUE Qing-wen(140)

Resilience evaluation method of external transportation network of integrated transit hub cluster under time-varying demand

..... YANG Yang, CHEN Jun-ting, YAO En-jian, LIU Dong-mei(155)

### • Transportation Infrastructure Engineering •

Simplified analytical solution for annual periodic temperature field along radial depth of lining and surrounding rock in deep-buried tunnels

in cold regions ..... ZHAO Peng-yu, CHEN Jian-xun, LUO Yan-bin, YANG Dian-guang, FAN Wen-jie, LIU Ji-xiang(170)

Calculation of displacement response induced by tunnel excavation considering restraint effects of in-service piles and soil stiffness hardening

..... HUANG Ming, ZHANG Cheng-zhao, LAI Feng-wen, LU Yao, WEI Wei(186)

Field test on horizontal bearing characteristics of large-diameter PRC pipe piles installed with pre-drilled inserted method

..... REN Yu-bo, WANG Miao-miao, TIAN Ye-qing, XIE Hong-li, MA Kai, ZHOU Zhi-jun, XU Chao(198)

Experiments on shear properties of vetiver root-red clay root-soil composite under different failure modes

..... FANG Wei, LIU Huo, LIU Tian, WANG Yi-wei(210)

Efficient image segmentation method for interface heterogeneous materials of grouted asphalt concrete under small sample conditions

..... BAI Tao, ZHAN Ao-yang, GU Fan(225)