

# 上海海事大学学报

第 45 卷 第 1 期 2024 年 3 月

## 目次

- 基于改进 DBSCAN 的船舶会遇识别模型 ..... 陈蜀喆, 龚彪, 康杰, 孙俊博( 1 )
- 基于自适应神经网络的船舶航向保持预定义性能 PI 控制  
..... 刘训文, 褚善东, 骆海洋, 钟平( 10 )
- “船闸 + 升船机”协同控制下的船舶调度优化 ..... 杨锦, 李一博, 杨俊毅, 姚红云, 汪磊( 16 )
- 区域船舶交通流量预测 ChebNet-LSTM 模型  
..... 陈信强, 高原, 赵建森, 周亚民, 梅骁峻, 鲜江峰( 23 )
- 失效情景下考虑拥堵及偏好的多式联运路径选择 ..... 赵旭, 刘浩, 胡世浩( 30 )
- 基于 BP 神经网络的上海生鲜农产品物流需求预测 ..... 郝杨杨, 邹宇( 39 )
- 供应链韧性视域下集装箱运价指数保险费率厘定 ..... 余方平, 陶坤, 匡海波( 46 )
- 不同市场竞争环境下港口绿色减排与价格决策模型 ..... 陈婉婷, 胡志华( 55 )
- 船舶岸电政策下港航企业低碳行为演化研究 ..... 盛进路, 唐柳( 62 )
- 基于安全和集群视角的邮轮港口竞争力评价 ..... 孙家庆, 房朝阳, 徐帆( 70 )
- 广东省港口高质量发展与绿色经济耦合协调及影响因素研究 ..... 叶善椿, 何景师( 77 )
- 基于 CFD 法的桨前预旋导流罩设计与分析 ..... 蔺永杰, 张宝吉( 85 )
- 100 m X-BOW 型极地探险邮轮局部振动控制 ..... 刘甄真, 江国和( 92 )
- 新型船用底部进气式脱硫塔流场分析 ..... 张瀛, 魏海军( 98 )
- NPC 三电平整流器的混合参数自适应控制 ..... 牛小兵, 董文浩, 石洁, 周鑫(104)
- 论国际海运温室气体减排的市场措施方案 ..... 徐国平, 潘欣竹(111)

[ 期刊基本参数 ] CN 31 - 1968 / U \* 1979 \* q \* A4 \* 120 \* zh \* P \* ¥25.00 \* 700 \* 16 \* 2024-03 \* n

本期责任编辑: 贾裙平, 赵勉, 葛亚娟

# Journal of Shanghai Maritime University

Vol. 45 No. 1 Mar. 2024

## Contents

- Ship encounter recognition model based on improved DBSCAN  
..... CHEN Shuzhe, GONG Biao, KANG Jie, SUN Junbo ( 1 )
- PI control of ship course keeping with predefined performance based on adaptive neural network  
..... LIU Xunwen, CHU Shandong, LUO Haiyang, ZHONG Ping ( 10 )
- Optimization of ship scheduling under cooperative control of “ship lock + ship elevator”  
..... YANG Jin, LI Yibo, YANG Junyi, YAO Hongyun, WANG Lei ( 16 )
- Regional ship traffic flow prediction model using ChebNet-LSTM  
..... CHEN Xinqiang, GAO Yuan, ZHAO Jiansen, ZHOU Yamin, MEI Xiaojun, XIAN Jiangfeng ( 23 )
- Route selection of multimodal transportation considering congestion and preference under failure scenarios  
..... ZHAO Xu, LIU Hao, HU Shihao ( 30 )
- Logistics demand forecast of fresh agricultural products in Shanghai based on BP neural network  
..... HAO Yangyang, ZOU Yu ( 39 )
- Premium rate determination of container freight index from perspective of supply chain resilience  
..... YU Fangping, TAO Kun, KUANG Haibo ( 46 )
- Port green emission reduction and price decision model under various market competition environments  
..... CHEN Wanting, HU Zhihua ( 55 )
- Evolution study on low-carbon behavior of port and shipping enterprises based on shore-to-ship power policy  
..... SHENG Jinlu, TANG Liu ( 62 )
- Evaluation on cruise port competitiveness based on security and cluster perspective  
..... SUN Jiaqing, FANG Chaoyang, XU Fan ( 70 )
- Research on coupling coordination and influencing factors of port high-quality development and green  
economy in Guangdong Province ..... YE Shanchun, HE Jingshi ( 77 )
- Design and analysis of pre-swirl fairings in front of propellers based on CFD method  
..... LIN Yongjie, ZHANG Baoji ( 85 )
- Local vibration control of 100 m X-BOW polar exploration cruise ships ..... LIU Zhenzhen, JIANG Guohe ( 92 )
- Flow field analysis of a novel marine bottom air intake desulfurization tower  
..... ZHANG Ying, WEI Haijun ( 98 )
- Hybrid parameter adaptive control of NPC three-level rectifier  
..... NIU Xiaobing, DONG Wenhao, SHI Jie, ZHOU Xin ( 104 )
- Research on proposals of market-based measures for international shipping greenhouse gas emission reduction  
..... XU Guoping, PAN Xinzhu ( 111 )

---

Editors in Charge: JIA Qunping, ZHAO Mian, GE Yajuan