

中国航海

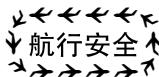
3

第 45 卷 第 3 期

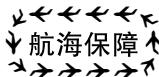
总第 132 期 2022 年 9 月

2022

目 次



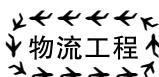
- 复杂气象海况条件下船舶航行安全辨识及航行优化方法 冯珂, 张本伟 (1)
基于云重心评判的轮机模拟器智能评估方法 申恒龙, 赵辉, 曹辉, 梁世源 (7)
基于双向搜索的改进蚁群算法的船舶路径规划 白响恩, 江明哲, 徐笑锋, 孙丁一 (13)
海上风电水域船舶航行风险量化研究现状综述 余庆, 刘克中, 袁志涛, 杨星 (21)
客船治安防控能力成熟度评价方法 郭文强, 张新宇, 黎泉 (26)



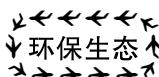
- 提高落水集装箱应急扫测效率若干方法探析 刘顺杰, 史晓平 (33)



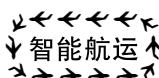
- 基于 DEA 模型的长江沿线主要内河港口效率评价 詹斌, 张艳秋, 苏健, 胡晓宇 (39)
基于 VAR 模型的港口群和区域经济协同发展比较研究 刘朋群, 殷明 (47)



- 基于改进 GA-BP 的邮轮建造仓储物流风险预警研究 王海燕, 王湾, 侯华保, 邓鹏翥, 姜前昆 (57)
北极东北航道对经由大连港货物贸易的影响研究 魏巍, 张芳, 张大龙 (65)



- 碳税与客户低碳偏好下港航企业减排决策分析 周海英, 李伯棠 (72)
水运在国内国际双循环中的作用机理研究 鄢佳聪, 蒋惠园, 田小勇, 杨晓岚 (80)
内河船舶生活污水排放监测系统设计与实现 侯轶仁, 杨祥国, 陈辉, 管聪, 李睿 (87)



- 基于决策树的无人船单锚泊锚位选择方法 张弘弛, 尹勇 (94)
基于改进 Cascade-RCNN 的内河航标检测算法 倪汉杰, 初秀民, 张彬鹏, 蒋仲廉 (99)
基于改进 RRT 算法的船舶路径规划与跟踪控制 宁君, 马昊冉, 李伟, 邵年骏, 刘正江 (106)
虚实融合的船舶智能航行测试技术 杨帆, 刘佳仑, 于淳, 孙旭 (113)
电力推进船舶仿真及能效优化方法 周坤欣, 商迪, 林叶锦, 张均东 (123)
船舶编队过闸航行三维实时仿真 李松龙, 柳晨光, 初秀民, 贺治卜 (129)

NAVIGATION OF CHINA

(Sep. 2022 Sum. No. 132)

Vol. 45 No. 3

Contents

Navigation Safety

Ship Navigation Safety Identification and Optimization under Complex Sea and Weather Conditions	FENG Ke, ZHANG Benwei (1)
Intelligent Assessment for Marine Engine Simulator Based on Membership Cloud Gravity Center Evaluation	SHEN Henglong, ZHAO Hui, CAO Hui, LIANG Shiyuan (7)
Ship Route Planning Using Improved Ant Colony Algorithm with Bi-Directional Search Strategy	BAI Xiang'en, JIANG Mingzhe, XU Xiaofeng, SUN Dingyi (13)
A Survey of Quantitative Risk Evaluation for Ships Navigating in Area of Offshore Wind Farm	YU Qing, LIU Kezhong, YUAN Zhitao, YANG Xing (21)
Maturity Evaluation of Passenger Ship Security Controlling Capability	GUO Wenqiang, ZHANG Xinyu, LI Quan (26)

Navigation Support

Methods for Efficient Emergency Sweep Search of Overboard Container	LIU Shunjie, SHI Xiaoping (33)
---	----------------------------------

Port Engineering

Efficiency Evaluation of Major Inland Ports along the Yangtse River Based on DEA Model	ZHAN Bin, ZHANG Yanqiu, SU Jian, HU Xiaoyu (39)
VAR-Model Based Comparative Study on Coordinated Development of Port Group and Regional Economy	LIU Pengqun, YIN Ming (47)

Logistics Engineering

Improved GA-BP Based Early Warning of Warehousing and Logistics Risk in Cruise Ship Construction	WANG Haiyan, WANG Wan, HOU Huabao, DENG Pengzhu, JIANG Qiankun (57)
The Impact of Opening of Northeast Course on Goods Trade via Dalian Port	WEI Wei, ZHANG Fang, ZHANG Dalong (65)

Ecological and Environmental Protection

The Ways for Port and Shipping Enterprises to Make Decision on Emission-Reduction in the Context of Carbon Tax and Client's Low Carbon Preference	ZHOU Haiying, LI Botang (72)
Mechanism of Water Transport in Domestic and International Double Circulation	YAN Jiacong, JIANG Huiyuan, TIAN Xiaoyong, YANG Xiaolan (80)
Design and Implementation of Inland Ship Sanitary Sewage Discharge Monitoring System	HOU Yiren, YANG Xiangguo, CHEN Hui, GUAN Cong, LI Rui (87)

Intelligent Shipping

Selection of Anchor Position with Decision Tree for Single Anchoring of Unmanned Ship	ZHANG Hongchi, YIN Yong (94)
Inland Navigation Mark Detection Algorithm Based on Improved Cascade RCNN	NI Hanjie, CHU Xiumin, ZHANG Binpeng, JIANG Zhonglian (99)
Ship Route Planning and Tracking Control Based on Improved RRT Algorithm	NING Jun, MA Haoran, LI Wei, SHAO Nianjun, LIU Zhengjiang (106)
Test Technology for Intelligent Navigation with Mix of Virtual and Actual Reality	YANG Fan, LIU Jialun, YU Chun, SUN Xu (113)
Simulation of Electrically-Propelled Ships and its Energy Efficiency Optimization	ZHOU Kunxin, SHANG Di, LIN Yejin, ZHANG Jundong (123)
Real Time 3D Simulation of Lockage of Ship Formation	LI Songlong, LIU Chenguang, CHU Xiumin, HE Zhibo (129)