

目次

↓航行安全↑

海港航道船舶航速控制标准量化方法	李伟,刘钊,张明阳,王艳杰	(1)
基于稳定流场重载船舶变速运动的船位轨迹预判	吕锡宝,王武修	(8)
薄膜型货物围护系统运营风险分析及响应	何光华,孟令毅	(14)
基于心率变异性的船员心理负荷特征研究	刘清,陈俊华,杨柳,何萌,杨铨,万志远	(19)
不同焦虑特质航海技术专业学生航行值班期间关注偏向分析	胥佳明,刘磊	(26)
实用性台风生成中期展望预警信息快速查询系统	董双,李颖,蔡小华,张照亿,张宇彤,刘大刚	(31)

↓船舶机电↑

基于粒子群优化混合神经网络的船舶辅锅炉故障诊断	王世威,甘辉兵,胡国彤,钟振宇	(37)
-------------------------------	-----------------	--------

↓船舶设计↑

基于加权平滑季节趋势时序分解法的船舶机损事故风险防控	裴正强,张延亮,石攀峰,梁辰,赵利辉	(43)
晃荡条件下 LNG-FSRU 充注工况的数值模拟	谢梦斌,朱汉华,门皓	(48)

↓航海保障↑

基于卷积神经网络及长短时记忆网络的短时船舶交通流量预测	刘敬贤,高广旭,刘奕,李宗志	(56)
基于正轴大圆海图的极区航行方法	王小海,唐正平,李超,郭正东	(62)

↓航道工程↑

绞吸式挖泥船绞刀切岩数值模拟	熊庭,王竞翔,危卫,江攀,张勇军	(69)
基于熵权-TOPSIS 模型的内河通航水域界定方法研究	王前栋,马全党,江福才	(76)
齿轮齿条爬升式升船机运行可靠性分析	王婷婷,金锋	(82)

↓物流工程↑

无水港参与下的区域海港群空箱调运优化	詹斌,李宇涵,冯国帅,吴双	(86)
基于 ICAKELM 的港口集装箱吞吐量预测模型	顾子瑜,陈诺	(93)
集装箱港口群的吞吐量预测及运价博弈决策改进模型	耿燊,钟铭	(100)
基于 LSTM 的上海港集装箱吞吐量预测	王凤武,张晓博,阎际驰,吉哲	(109)

↓环保生态↑

船公司纵向整合对其横向合谋的传导机制研究	邹静,董岗	(115)
欧盟船舶废弃物管理立法经验及借鉴	常文	(120)

↓打捞潜水↑

南海海难救援中救助飞机的优选研究	杜宝库,熊伟,度红望,王志文	(128)
------------------------	----------------	---------

↓信通工程↑

一种面向水上应急救援定位设备的北斗信号捕获方法	张杨,颜开,刘胜利,陈兵,蔡晨	(134)
-------------------------------	-----------------	---------

NAVIGATION OF CHINA

(Jun. 2022 Sum. No. 131)

Vol. 45 No. 2

Contents

Navigation Safety

- Standard Method of Ship Speed Control in Harbor Water Area *LI Wei, LIU Zhao, ZHANG Mingyang, WANG Yanjie* (1)
- Track Prediction of Maneuvering Heavily-Loaded Ship in Stationary Flow Field *LYU Xibao, WANG Wuxiu* (8)
- Operational Risks Associated with Membrane Type Cargo Containment System and Countermeasures *HE Guanghua, MENG Lingyi* (14)
- Research on Characteristics of Navigator's Psychological Load Based on Heart Rate Variability
..... *LIU Qing, CHEN Junhua, YANG Liu, HE Meng, YANG Xian, WAN Zhiyuan* (19)
- On Sea-Watch Attentional Bias of Nautical Cadets of Different State Anxiety Characteristic *XU Jiaming, LIU Lei* (26)
- Practical Quick Query System for Medium-Term Typhoon Formation Alert
..... *DONG Shuang, LI Ying, CAI Xiaohua, ZHANG Zhaoyi, ZHANG Yutong, LIU Dagang* (31)

Mechanical and Electrical Systems

- Application of Particle Swarm Optimizer Neural Network in Fault Diagnosis for Marine Auxiliary Boiler
..... *WANG Shiwei, GAN Huibing, HU Guotong, ZHONG Zhenyu* (37)

Ship Design

- Prevention of Marine Engine Fault by Combined Use of Weighted Smoothing and Trend Analysis Approach
..... *PEI Zhengqiang, ZHANG Yanliang, SHI Panfeng, LIANG Chen, ZHAO Lihui* (43)
- Numerical Simulation of LNG-FSRU Filling Process under Swaying Condition *XIE Mengbin, ZHU Hanhua, MEN Hao* (48)

Navigation Support

- Short-Term Water Traffic Flow Prediction with Convolutional Neural Network and Long Short-Term Memory Network
..... *LIU Jingxian, GAO Guangxu, LIU Yi, LI Zongzhi* (56)
- Polar Navigation with Normal Great Circle Chart *WANG Xiaohai, TANG Zhengping, JI Chao, GUO Zhengdong* (62)

Waterway Engineering

- Numerical Simulation of Rock Cutting Process with Cutter-Suction Dredger
..... *XIONG Ting, WANG Jingxiang, WEI Wei, JIANG Pan, ZHANG Yongjun* (69)
- Defining Navigable Waterway of Inland Waters with Entropy Weight TOPSIS Model *WANG Qiangdong, MA Quandang, JIANG Fucui* (76)
- Operational Reliability Analysis of Gear-Rack Type Ship Lifter *WANG Tingting, JIN Feng* (82)

Logistics Engineering

- Optimization of Empty Container Allocation for Regional Sea Port Group with Dry Port Involved
..... *ZHAN Bin, LI Yuhan, FENG Guoshuai, WU Shuang* (86)
- An ICAKELM-Based Model to Predict Container Throughput of Ports *GU Ziyu, CHEN Nuo* (93)
- A Model for Predicting Throughput of Container Port Group and Improving Decision-Making in Pricing Game ... *GENG Can, ZHONG Ming* (100)
- Prediction of Container Throughput of Shanghai Port with LSTM *WANG Fengwu, ZHANG Xiaobo, YAN Jichi, JI Zhe* (109)

Ecological and Environmental Protection

- Transmission Mechanism from Vertical Integration to Horizontal Collusion between Shipping Companies *ZOU Jing, DONG Gang* (115)
- Legislative Experience of EU in Controlling Ship-Generated Wastes *CHANG Wen* (120)

Diving and Salvage

- Selection of Rescue Airplane for Shipwreck within South China Sea *DU Baoku, XIONG Wei, DU Hongwang, WANG Zhiwen* (128)

Information and Communication Engineering

- A Beidou Signal Acquisition Technology for Sea Rescue Positioning Devices
..... *ZHANG Yang, YAN Kai, LIU Shengli, CHEN Bing, CAI Chen* (134)