

目次

↓ 导航与通信 ↑

应用北斗系统提升水上应急反应能力	徐明强,刘嘉华,俞毅,刘辉	(1)
面向远海护航的舰船导航装备发展需求	韩云东,金良安,彭术光,蒋永馨,周红进	(5)
ZUBR 气垫船磁罗经自差的岸基校正	兰国辉,钟云海,马海瑞,韩云东	(9)
基于 dsPIC 的船用航行灯恒流源设计	秦俊峰,白洪芬,范宏伟,李凯	(12)

↓ 机电 ↑

轮机模拟器 I/O 单元远程升级设计	王德龙,王冬捷,姜瑞政	(16)
国内外船用 LNG 动力发动机发展现状	马义平,曾向明,魏海军,赵睿,王忠诚,许乐平	(20)
基于 XML 的船舶防污染设备实操评估智能仿真系统开发	王永坚,陈丹,陈景锋	(26)
船舶推进系统能量耗散建模与分析	刘伊凡,张跃文,孙培廷,刘竹凤	(31)

↓ 航行安全 ↑

基于人工智能和软计算的船舶自动避碰决策计算	吕红光,尹勇,尹建川,胥文	(35)
水上船舶交通事故人为因素致因机理	王海燕,刘清	(41)
基于模糊推理系统的船舶操纵运动建模	白一鸣,赵永生	(45)
大型船舶的非线性 Norrbm 数学模型改进	张显库,杨光平	(50)
超大型自航自升式风电安装船波浪载荷与运动相应	张甫杰,颜建军,王思铭,黄凯,高家镛	(54)
基于 CFD 的船舶顶浪遭遇畸形波数值模拟	石博文,刘正江,张本辉	(59)
加权灰色理论在海损事故分析与预测中的应用	牛佳伟,李连博,陈昌源,孙海洋,乔林	(63)
全冷式超大型液化气船波浪载荷预报与分析	周清华,梁小军,李小灵,陈兵	(68)
恶劣天气下海上交通安全风险动态预评估体系	戴厚兴,吴兆麟	(73)
内河船舶安全缺陷的要素关联性	郝勇,黄强	(77)
模糊评价法在 LNG 加注船作业风险分析中的应用	曹昌魁,屠海洋	(82)
水上飞机起降移动安全区定量计算分析	翁建军,秦雪儿,李亚攀	(87)

↓ 航海气象与环保 ↑

基于船舶营运数据的海运废气排放量测算	邢辉,段树林,梁炳南,刘勤安	(93)
我国沿海船舶 CO ₂ 排放限值与 EEDI 比对分析	于巧婵,纪永波,骆义	(99)

↓ 水运经济 ↑

AHP 与 QFD 综合模型及其在航运中心评价中的应用	范丽先,王行苑,尹静波	(104)
巴拿马运河扩建对中美集装箱运输路径选择的影响	曾庆成,吴凯,孙祥君	(109)
我国沿海与国际干散货运价联动	王思远,陈金海,余恩勤,黄顺泉	(114)
规范我国国际集装箱班轮运输市场海运附加费	章强,刘越	(119)
厦门港腹地拓展对策	王鸿鹏,孙小清,李友林	(124)
中国北极航线港口层次划分	李振福,丁超君,曾茜	(128)

NAVIGATION OF CHINA

(Sep. 2016 Sum. No. 108)

Vol. 39

No. 3

Contents

Navigation & Communication

- Enhancing Maritime Emergency Response Capacity with Beidou *XU Mingqiang, LIU Jiahua, YU Yi, LIU Hui* (1)
- Development Demands of Distant Escort Warships on Navigation Equipment
..... *HAN Yundong, JIN Liang'an, PENG Shuguang, JIANG Yongxin, ZHOU Hongjin* (5)
- On-Land Magnetic Compass Correction for ZUBR Air Cushion Vehicle
..... *LAN Guohui, ZHONG Yunhai, MA Hairui, HAN Yundong* (9)
- A dsPIC-Based Constant-Current Source for Marine Navigation Lights.....*QIN Junfeng, BAI Hongfen, FAN Hongwei, LI Kai* (12)

Machinery & Electricity

- Remote Update of I/O Units of Marine Engine Room Simulator *WANG Delong, WANG Dongjie, JIANG Ruizheng* (16)
- Current Development Situation of Marine LNG Fueled Engines Both at Home and Abroad
..... *MA Yiping, ZENG Xiangming, WEI Haijun, ZHAO Rui, WANG Zhongcheng, XU Leping* (20)
- An Intelligent Operation Scoring Simulator System for Marine Pollution Prevention Equipment
..... *WANG Yongjian, CHEN Dan, CHEN Jingfeng* (26)
- Modeling and Analysis of Energy Consumption of Ship Propulsion System
..... *LIU Yifan, ZHANG Yuewen, SUN Peiting, LIU Zhufeng* (31)

Navigation Safety

- Artificial Intelligence and Soft Computation Methods in Automatic Collision Avoidance Algorithms for Ships
..... *LYU Hongguang, YIN Yong, YIN Jianchuan, XU Wen* (35)
- Accident-Causing Mechanism of Human Errors in Marine Navigation *WANG Haiyan, LIU Qing* (41)
- Ship Maneuvering Motion Modeling Based on Fuzzy Inference System *BAI Yiming, ZHAO Yongsheng* (45)
- Improvement of Nonlinear Norrbm Mathematical Model for Large Ships *ZHANG Xianku, YANG Guangping* (50)
- Wave Loads and Motion Characteristics of Extra Large Self-Propulsion & Jack-Up Wind Turbine Installation Vessel
..... *ZHANG Fujie, YAN Jianjun, WANG Siming, HUANG Kai, GAO Jiayong* (54)
- CFD Numerical Simulation of Ship Encountering Freak Waves in Head Sea
..... *SHI Bowen, LIU Zhengjiang, ZHANG Benhui* (59)
- Application of Weighted Grey Theory for Marine Accident Analysis and Prediction in Sea Waters
..... *NIU Jiawei, LI Lianbo, CHEN Changyuan, SUN Haiyang, QIAO Lin* (63)
- Wave Load Prediction and Analysis of Very Large Gas Carrier
..... *ZHOU Qinghua, LIANG Xiaojun, LI Xiaoling, CHEN Bing* (68)
- Dynamic Risk Pre-Evaluation System for Marine Traffic Safety Under Rough Weather *DAI Houxing, WU Zhaolin* (73)
- Association Among Safety Defects for Inland Ship *HAO Yong, HUANG Qiang* (77)
- Analysis on Risks in LNG Bunkering Vessel Operation with Fuzzy Evaluation Method *CAO Changkui, TU Haiyang* (82)
- Quantitative Method for Establishing Moving Safety Zone Around Seaplane During Taking-Off and Landing
..... *WENG Jianjun, QIN Xueer, LI Yapan* (87)

Navigation Meteorology & Environmental Protection

- Methods to Estimate Exhaust Emissions from Sea-Going Ships According to Operational Data
..... *XING Hui, DUAN Shulin, LIANG Bingnan, LIU Qin'an* (93)
- A Comparative Analysis of China's Coastal Ship CO₂ Emissions Limit Against EEDI ... *YU Qiaoqian, JI Yongbo, LUO Yi* (99)

Waterborne Economics

- Application of Integrated Model of AHP and QFD in Evaluation of International Shipping Center
..... *FAN Lixian, WANG Xingyuan, YIN Jingbo* (104)
- Impact of Panama Canal Expansion on Sino-US Routes of Container Transport
..... *ZENG Qingcheng, WU Kai, SUN Xiangjun* (109)
- Time-Varying Correlation and Dynamic Volatility Between China Coastal and International Dry Bulk Shipping Markets
..... *WANG Siyuan, CHEN Jinhai, YU Siqin, HUANG Shunquan* (114)
- Regulation of Ocean Surcharges in Chinese International Container Liner Shipping Market *ZHANG Qiang, LIU Yue* (119)
- Strategy About Expansion of Hinterland of Xiamen Port *WANG Hongpeng, SUN Xiaoqing, LI Youlin* (124)
- Hierarchy of Chinese Ports for Arctic Route *LI Zhenfu, DING Chaojun, ZENG Qian* (128)