

中文核心期刊

ISSN 1000-4653

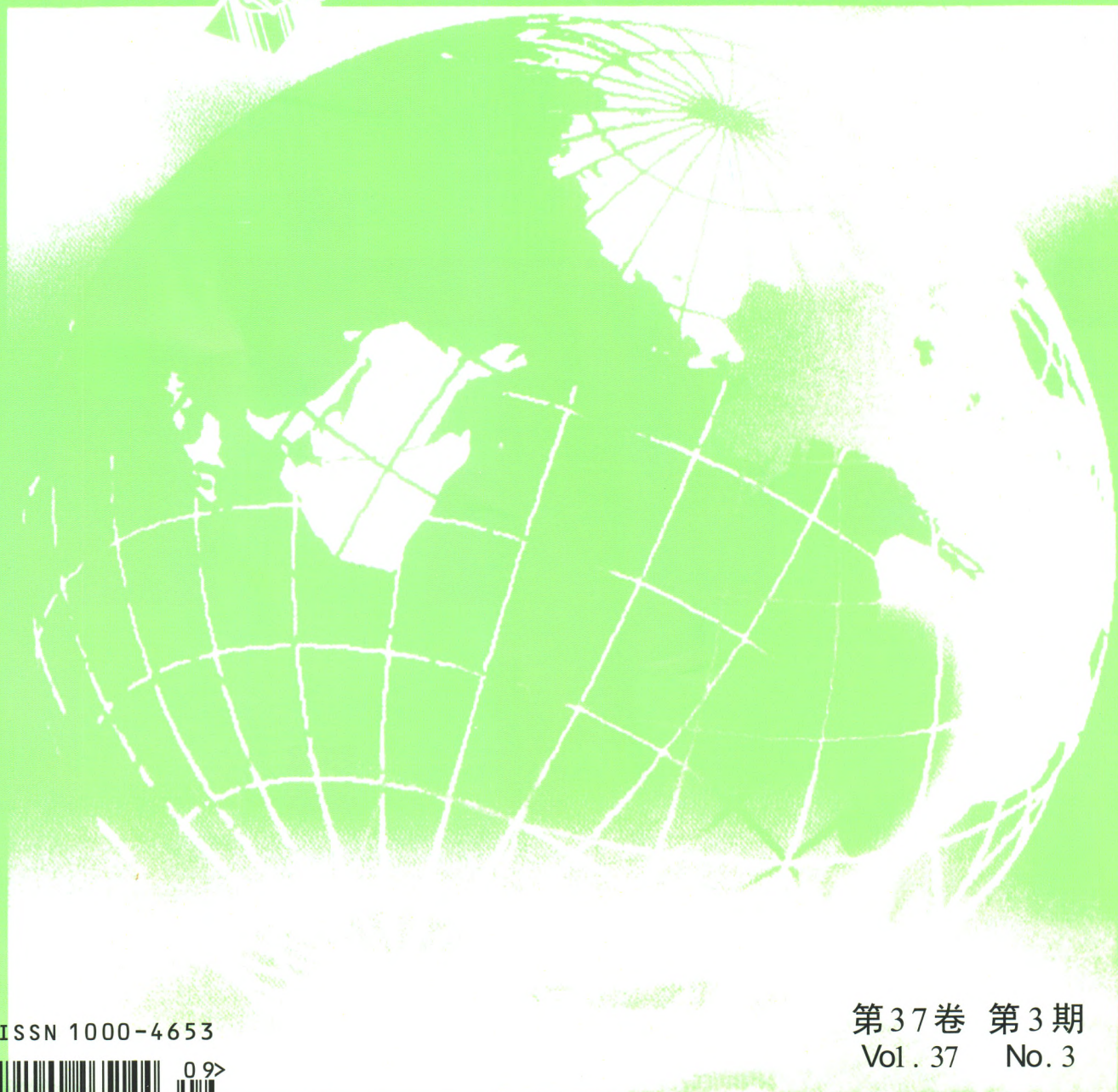
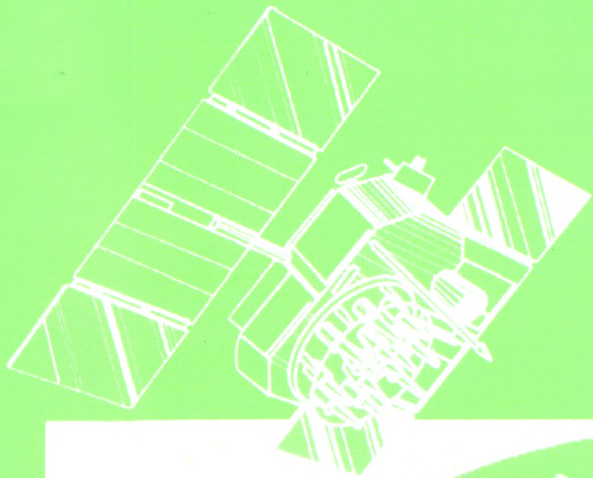
CN 31-1388/U

中国航海

NAVIGATION

OF CHINA

2014 3



ISSN 1000-4653

第37卷 第3期
Vol. 37 No. 3



中国航海学会

万方数据

目 次

↓←←←←← ↓ 导航与通信 ↑ →→→→→↑

基于道格拉斯改进的雷达回波数据简化算法	熊 欣,张新宇,王金涛 (1)
长三角区域内河航运信息服务需求分析	孙腾达,刘喆惠,丘建华 (5)
基于遗传和小脑模型算法的新型航向控制器	陈进涛,王仁强,杜加宝 (10)

↓←←←←← ↓ 机 电 ↑ →→→→→↑

压缩比对 4190 型船用柴油机性能的影响	黄加亮,项勇兵,尹自斌,于洪亮 (15)
大型滚装船船电-光伏并网系统构建及电能质量分析	袁成清,张 彦,孙玉伟,汤旭晶,严新平 (21)
基于 PLC 的船用焚烧炉控制系统设计	陈新恩,蔡建邦,覃浩峰 (25)
基于定子电流的电力推进船舶螺旋桨故障诊断	黄 辉,褚建新,沈爱弟 (28)
船用油水分离器污水排放自动监管系统设计	林洪贵,杨国豪,李 凯 (32)

↓←←←←← ↓ 航行安全 ↑ →→→→→↑

航运事故致因机理突变模型的构造与应用	陈蜀喆,黄立文 (36)
内河船舶模拟器中河流的绘制方法综述	翟小明,尹 勇,神和龙,肖方兵 (41)
液化天然气船货物操作仿真器的设计与实现	李博洋,张运秋,李迪阳,韩淑洁 (46)
基于 AIS 的特定船舶会遇实况分布	肖 潇,赵 强,邵哲平,纪贤标,潘家财 (50)
液化镍矿砂晃动与船舶运动的耦合影响	蔡文山,高家镛,张甫杰,金允龙 (54)
基于风洞试验的圆弧形硬帆最佳攻角	薛树业,胡以怀,何建海,曾向明 (59)
人工鱼群算法的避碰路径规划决策支持	马文耀,吴兆麟,杨家轩,李伟峰 (63)
恶劣海况中军用舰船航行决策模型	戴 冉,郝庆龙,顾祖旭 (68)
治理理论视域下的我国海上搜救管理体制创新	黄志球 (72)
撞击不同货油舱对碰撞船舷侧结构碰撞性能影响	吴文锋,邓木章,宋修福 (76)
沿岸通航密集区航行风险识别、评估和控制	栾法敏 (80)
我国沿海海事监管飞机布局配置	高学英,孙 迪,刘胜利,高 晖 (85)
浮空载具在海事领域的应用	胡勤友,张正儒,刘 侠 (90)
上海临港新城港区及其航行和靠离泊作业	钱洪华,梁黎明,薛松辉 (95)
大型船舶在狭水道浅水域航行的水动力特性	吴 晞,李宇辰,韩晓光 (100)

↓←←←←← ↓ 航海气象与环保 ↑ →→→→→↑

欧盟海运排放监测报告核实规则及其影响	张 爽,韩佳霖 (104)
船舶振动与噪声“源-路径-接受点”	张桂臣,车驰东,杨 勇,孙增华 (108)

↓←←←←← ↓ 水运经济 ↑ →→→→→↑

基于自组织理论的国际航运中心系统演化	温文华,范厚明,马钰雯,张文静 (112)
基于延迟期权的船舶投资时机	余思勤,陈金海,黄顺泉 (118)
基于协整理论的海运价格指数影响因素	李瑞华,宋炳良 (123)

NAVIGATION OF CHINA

(Sep. 2014 Sum. No. 100)

Vol. 37 No. 3

Contents

Navigation & Communication

- Simplifying Radar Echo Simulation with Improved Douglas-Peucker Algorithm XIONG Xin, ZHANG Xinyu, WANG Jintao (1)
- Demand Analysis for River Information Services in Yangtze River Delta Region SUN Tengda, LIU Zhehui, QIU Jianhua (5)
- Design of New Ship Course Controller Based on Genetic and Cerebellar Model Algorithm CHEN Jintao, WANG Renqiang, DU Jiabao (10)

Machinery Electricity

- Effects of Compression Ratio on Performance of 4190 Type Marine Diesel Engine HUANG Jialiang, XIANG Yongbing, YIN Zibin, YU Hongliang (15)
- Design of Grid-Connected PV System for Large Ro-Ro Ships and its Power Quality Analysis YUAN Chengqing, ZHANG Yan, SUN Yuwei, TANG Xujing, YAN Xinpeng (21)
- Design of Marine Incinerator Control System Based on PLC CHEN Xin'en, CAI Jianbang, QIN Haofeng (25)
- Diagnosis of Propeller Fault of Electric Propulsion Ship Based on Stator Current HUANG Hui, CHU Jianxin, SHEN Aidi (28)
- Design of Automatic Sewage Discharge Supervision System on Marine Oily-Water Separator LIN Honggui, YANG Guohao, LI Kai (32)

Navigation Safety

- Construction and Application of Shipping Accident Cause Mechanism Catastrophe Theory Model CHEN Shuzhe, HUANG Liwen (36)
- Review on Methods of Rendering of Rivers in Inland River Ship Simulator ZHAI Xiaoming, YIN Yong, SHEN Helong, XIAO Fangbing (41)
- Design and Implementation of LNG Carrier Cargo Handling Simulator LI Boyang, ZHANG Yunqiu, LI Diyang, HAN Shujie (46)
- Specific Ship's Encounter Live Distribution Based on AIS XIAO Xiao, ZHAO Qiang, SHAO Zheping, JI Xianbiao, PAN Jiakai (50)
- Coupling Effects Between Sloshing of Liquefied Nickel Ore and Ship Motion CAI Wenshan, GAO Jiayong, ZHANG Fujie, JIN Yunlong (54)
- Best Angle of Attack of Circular-Arc Sails Determined by Wind Tunnel Tests XUE Shuye, HU Yihuai, HE Jianhai, ZENG Xiangming (59)
- Decision Support from Artificial Fish Swarm Algorithm for Ship Collision Avoidance Route Planning MA Wenyao, WU Zhaolin, YANG Jiaxuan, LI Weifeng (63)
- Sailing Decision Model of Military Vessels on Rough Sea DAI Ran, HAO Qinglong, GU Zuxu (68)
- Innovation of Management of Maritime Search and Rescue in China from Perspective of Governance Theory HUANG Zhiqiu (72)
- Collision Resistance of Side Structure of Oil Tanker Hold Varies with Hit Position WU Wenfeng, DENG Shuzhang, SONG Xiufu (76)
- Identification, Assessment and Control of Navigational Risks in Coastal and Congested Waters LUAN Famin (80)
- Configuration of Maritime Supervision Aircraft Along Chinese Coast Line GAO Xueying, SUN Di, LIU Shengli, GAO Hui (85)
- Application of Aerostat in Maritime Field HU Qinyou, ZHANG Zhengru, LIU Xia (90)
- Navigation and Mooring in Shanghai Lingangxincheng Port QIAN Honghua, LIANG Liming, XUE Songhui (95)
- Hydrodynamic Characteristics of Large Ships Sailing in Narrow and Shallow Channels WU Xi, LI Yuchen, HAN Xiaoguang (100)

Navigation Meteorology & Environmental Protection

- EU Regulation on Monitoring, Reporting and Verification of Emissions from Maritime Transport and Impacts Thereof ZHANG Shuang, HAN Jialin (104)
- Ship Vibration and Noise Control Based on "Source-Path-Receiver" Method ZHANG Guichen, CHE Chidong, YANG Yong, SUN Zenghua (108)

Waterborne Economics

- Evolution of International Shipping Center Analysis Based on Self-Organization Theory WEN Wenhua, FAN Houming, MA Yuwen, ZHANG Wenjing (112)
- Ship Investment Time Based on Real Option Valuation YU Siqin, CHEN Jinhai, HUANG Shunquan (118)
- Factors of Shipping Price Index Based on Cointegration Theory LI Ruihua, SONG Bingliang (123)

中国航海

ZHONGGUO HANGHAI

(季刊, 1965年12月创刊)

第37卷 第3期 (总第100期)

2014年9月25日出版

(Quarterly, Started in December 1965)

Vol. 37 No. 3 (Serial No.100)

Sept. 25, 2014 Published

本刊被下列数据库列为来源期刊

- * 英国《科学文摘》(SA/INSPEC)
- * 美国《剑桥科学文摘》(CSA)
- * 俄罗斯《文摘杂志》(AJ)
- * 中国科学引文数据库(CSCD)
- * 中国科技期刊精品数据库
- * 中国核心期刊(遴选)数据库
- * 中国科技论文统计与分析数据库(CSTPC)
- * 中国学术期刊综合评价数据库(CAJCED)
- * 中国学术期刊文摘(CSAC)
- * RCCSE中国核心学术期刊

主管单位：中国科协

主办单位：中国航海学会

编辑出版：《中国航海》编辑部

主编：马浚

副主编：吴昌正 韩成敏 陈传明

编辑部地址：上海海事大学图书馆B5楼

电话/信箱：(021)38284906 zghh@shmtu.edu.cn

市区办事处：上海民生路600号(上海船研所内)

电话/信箱：(021)58522151 zghh@sssri.com

印刷：上海竟成印务有限公司

发行范围：国内外公开发行

国内发行：《中国航海》编辑部

国外发行：中国国际图书贸易总公司

(北京399信箱, 邮编 100044)

中国标准连续出版物号：ISSN 1000-4653
CN 31-1388/U

定价：20.00元/册