



ASIA NAVIGATION CONFERENCE 2021

2021年亚洲航海学术年会

ORGANIZERS : China Institute of Navigation Japan Institute of Navigation Korean Institute of Navigation and Port Research

CO-ORGANIZER : Tianjin Research Institute For Water Transport Engineering, M.O.T.

主办单位：中国航海学会、日本航海学会、韩国航海港湾学会

承办单位：交通运输部天津水运工程科学研究院

中国·天津
TIANJIN·CHINA



INTRODUCTION OF CO-ORGANIZER

Founded in 1974, Tianjin Research Institute for Water Transport Engineering (“TIWTE”), is a scientific research institution directly under the Ministry of Transport (M.O.T.). It specializes in the research of basic, strategic and forward-looking generic technologies in the development of transportation science and technology (S&T) and key technologies in major project construction, and undertakes the research of water flow and sediment, port navigation, safety and environmental protection, cost and quota, simulation and IT applications in coastal and inland ports.

TIWTE consists of 15 research centers and four S&T firms, and boasts six national innovation platforms (National Engineering Laboratory of Port Hydraulic Construction Technology, International Cooperation Base for Waterway Green Construction and Disaster Prevention, National Metering Station for Testing Equipment of Water Transport Engineering, National Base for Transportation Science Popularization, China-Indonesia Joint Research Center for Port Construction and Disaster Prevention, and China-Bangladesh Joint Research Center for Port Construction), three key laboratories (Field Scientific Observation and Research Base for Long-Term Performance of Ports and Waterways in Bohai Bay, Engineering Sediment Laboratory, and Laboratory for Detection, Diagnosis and Reinforcement of Hydraulic Structure), and three provincial research platforms including Tianjin Key Laboratory of Waterway Engineering Surveying and Mapping Technology.

TIWTE has 24 scientific research facilities such as the world’ s largest 450m long, 5m wide and 8–12m deep large-scale wave flume and the largest 500gt port geotechnical centrifuge in China. It has 10 Class A qualifications such as engineering consulting, environmental impact assessment, water transport structure testing, survey and mapping, waterway engineering design, environmental engineering design, supervision and safety evaluation.

Over the past ten years, TIWTE has undertaken more than 6,000 projects, including 400+ national, provincial or ministerial S&T programs, 700+ national key project studies, 200+ overseas project studies in more than 30 countries including South Korea, Malaysia and Indonesia, and has cooperation with over 20 countries including the United States, Germany, Japan, etc. TIWTE’ s scientific research achievements cover the whole life cycle of water transportation from construction, management, maintenance to use, and sectors such as power, energy and smelting.

Standing at a new starting point, TIWTE will fully implement the spirit of the Outline on Building China’ s Strength in Transportation and the National Comprehensive Three-dimensional Transportation Network Planning Outline, promote the “innovation-driven, talent-supported, open and integrated, and culture-led” strategy and the pilot task of building strength in transportation, aim at building an internationally renowned and world-class water transportation innovation institution, and strive to achieve high-level S&T self-reliance and support the creation of a new development pattern.



承办单位介绍

交通运输部天津水运工程科学研究院(简称“天科院”)成立于1974年,是交通运输部直属科研事业单位,主要从事交通运输科技事业发展中具有基础性、战略性、前瞻性等共性技术和重大工程建设关键技术研究,承担沿海和内河港口领域的水流泥沙、港口通航、安全环保、造价定额、仿真与信息化等研究工作。

天科院下设15个科研中心和4个科技企业,拥有港口水工建筑技术国家工程实验室、国家水路绿色建设与灾害防治国际合作基地、国家水运工程检测设备计量站、国家交通运输科普基地、中国-印尼港口建设与灾害防治联合研究中心、中国-孟加拉港口建设联合研究中心等6个国家级创新平台;拥有渤海湾港口航道长期性能野外科学观测研究基地和工程泥沙、水工构造物检测诊断与加固、水路交通环境保护等交通运输行业重点实验室,以及天津市水运工程测绘技术重点实验室等6个部省级科研平台。

天科院拥有世界最大的长450m、宽5m、深8-12m的大比尺波浪水槽和国内最大的500gt港口土工离心机等科研大设施,具有工程咨询、环境影响评价、水运工程结构检测、勘察测绘、航道工程设计、环境工程设计、监理以及安全评价等10余项甲级资质。

近十年,天科院承担各类项目6000余项,其中国家及省部级科技计划400余项,国家重大工程研究700余项,韩国、马来西亚、印尼等30余个国家的海外工程研究200余项,与美国、德国、日本等20多个国家科研机构开展合作。

科研成果涵盖水运交通建管用全生命周期和电力、能源、冶炼等多个领域。

站在新的历史起点上,天科院将全面贯彻落实《交通强国建设纲要》和《国家综合立体交通网规划纲要》精神,统筹推进“创新驱动、人才支撑、开放融合、文化引航”战略,高质量推进交通强国试点任务,以建设国际知名、世界一流的新一代国家水运交通科技创新机构为目标,努力实现高水平科技自立自强,为服务交通强国建设和构建新发展格局提供强力支撑,用科技创新书写出无愧于时代、无愧于历史的华彩篇章!



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CONFERENCE GENERAL INFORMATION

■ CONFERENCE CERTIFICATE

Name: Asia Navigation Conference 2021

Theme: Safe Navigation · Environmental Protection · Intelligent Application · Regional Cooperation

Time: 2021.10.18-10.20

Location: Tianjin Research Institute for Water Transport Engineering (Address: Xingang 2nd Road, no. 2618, Tanggu, Binhai New Area, Tianjin)

■ HOST

Organizers: China Institute of Navigation, Japan Institute of Navigation, Korean Institute of Navigation and Port Research

Co-organizer: Tianjin Research Institute for Water Transport Engineering, M.O.T.

■ INTRODUCTION

Asia Navigation Conference (ANC) is an annual joint symposium of China Institute of Navigation, Japan Institute of Navigation, Korean Institute of Navigation and Port Research. The purpose of the conference is to exchange and share the achievements and information of the development of navigation technology in Asia, and encourage young scientific and technical workers to devote themselves to the maritime industry and in-depth research. After years of propaganda and accumulation, the conference already has a relatively good staff base and reputation, especially in the three host countries. Every year, the contributors and participants are very active, training a large number of reserve talents in the field of navigation. At present, the organizers are actively expanding the scope of participating countries and continue to expand the influence of the conference, create a prestigious international conference brand in the maritime industry in Asia.

■ MATTERS ON HYGIENE E & DISEASE CONTROL

1. In order to strictly implement various epidemic prevention and control measures, all personnel entering hotels and conference venues must wear masks except for dining and sleeping.
2. Please cooperate with door-to-door temperature measurement, scan code and flow control; please wash your hands and disinfect before entering the meeting room.
3. It is recommended to bring your own water glass and maintain social distance. We encourage contactless non-cash payments such as WeChat and Alipay.
4. During the conference, if you have fever (over 37.2°C), dry cough, fatigue, etc., please take the initiative to contact the staff of the conference affairs team and temporarily prohibit entering the conference venue. Please register truthfully, go to the nearest hospital in time and provide a personal health examination report before leaving.



CONFERENCE GENERAL INFORMATION 会议概况

■ 会议概况

名称: 2021年亚洲航海学术年会

主题: 安全 · 绿色 · 智能 · 合作

时间: 2021年10月18日-20日

地点: 交通运输部天津水运工程科学研究院 (地址: 天津市滨海新区塘沽新港二号路2618号)

■ 举办单位

主办单位: 中国航海学会、日本航海学会、韩国航海港湾学会

承办单位: 交通运输部天津水运工程科学研究院

■ 简介

亚洲航海学术年会是由中国航海学会、日本航海学会、韩国航海港湾学会联合主办的学术交流会议。会议旨在交流和共享亚洲地区航海科技发展的成果和信息，鼓励青年科技工作者投身航海事业，深入科学研究。经过多年的宣传和积累，会议已具有较好的人员基础和知名度，尤其在三个主办国内，每年投稿和参会人员都非常积极踊跃，培养了大批航海领域后备人才。目前主办方正积极拓展参会国家的范围，继续扩大会议影响力，打造亚洲地区航海界享有盛誉的国际会议品牌。

■ 防疫要求

1. 为严格落实各项疫情防控措施，凡进入酒店及会场人员，除就餐就寝外，均须佩戴口罩。
2. 请配合进门测温扫码和流量管控；进入会议室前请洗手消毒。
3. 建议自带水杯并保持社交距离。提倡微信、支付宝等无接触非现金支付。
4. 会议期间如有发热（超过37.2°C）、干咳、乏力等状况，请主动联系会务组工作人员并暂时禁止进入会场。请如实做好登记，及时就近就医并提供个人健康检查报告后方可离开。





会务须知

- 会议胸卡是参加论坛活动的重要凭证，请妥善保管，不得涂改或转让他人使用。如胸卡遗失，请联系签到处工作人员补办。
- 进入论坛会场时，须出示相应会议胸卡及身份证件（护照），两证姓名一致方能进入。
- 请根据会议日程，提前10分钟进入会场，并按座次安排就座。
- 为保证会场秩序，进入会场后，请将手机调至静音或震动状态，请勿在会上发放自带资料。
- 所发文件材料、证件等为内部资料，请注意保管。
- 严禁携带易燃易爆等危险品进入会场，会场及展厅内禁止吸烟。
- 请爱护会场公用设施，如有损坏，需按规定赔偿。
- 参会期间，请您务必全程看护和保管好您的私人物品（如钱包、手机、电脑等）。如您的个人物品被盗或发现有人行窃，请及时告知现场工作人员，我们将协助您向安保部门报案。



NOTES FOR MEETING

- ★ Please Keep the Representative Card properly as it serves as a valid evidence to enter the venue. It's not modifiable and transferrable. If the card is lost, please contact the staff at the sign-in to reissue.
- ★ The name on the Representative Card should match the name on your ID card (or passport) correctly when entering the forum.
- ★ Please take part in the activities punctually in line with the conference schedule.
- ★ In order to keep the venue well ordered, please set your mobile phone to the MUTE or Vibration state when entering. Do not distribute any materials that are brought with you.
- ★ Documents that distributed for the convention and ID card, etc. are for internal use only. Please keep them properly.
- ★ It is strictly prohibited to carry dangerous things such as inflammables and explosives into the venue. No Smoking in the venue and the hall.
- ★ Please take good care of the public facilities in the conference venue.
- ★ Participants are advised to take care of their personal belongings. In case of personal belongings lost, please notify the staff in time, and assistance will be provided to call the police.


ASIA NAVIGATION CONFERENCE 2021 PLANNING

Date	Time	CONTENTS
10.18	All Day	Registration
	14:00-16:00	1st Delegation Meeting
10.19	09:00-12:00	Openning Ceremony
	12:00-13:30	Lunch Break
	13:30-17:50	Paper Sessions
10.20	08:00-10:50	Paper Sessions
	11:30-12:00	Evaluation Meeting (Evaluation Experts)
		Technical Tour (Participants)
	12:00-14:00	Lunch Break
	14:00-14:50	2nd Delegation Meeting
	15:00-16:30	Award and Closing Ceremony


会议安排

日期	时间	活动安排
10.18	全天	报到
	14:00-16:00	第一次组委会会议
10.19	09:00-12:00	开幕式
	12:00-13:30	午餐
	13:30-17:50	论文交流
10.20	08:00-10:50	论文交流
		论文评审会 (评审专家)
	11:30-12:00	参观交通运输部天津水运工程科学研究院大型水动力实验中心 (国家交通运输科普基地) (参会人员)
	12:00-14:00	午餐
	14:00-14:50	第二次组委会会议
	15:00-16:30	闭幕式暨颁奖典礼



AGENDA FOR OPENNING AND CLOSING CEREMONY

Venue: Tianjin Research Institute for Water Transport Engineering (TIWTE), Conference Hall 401	
Opening Ceremony Time: October 19, 2021 Forenoon	
Moderated by Baochen ZHANG, Executive President of CIN	
09:00-09:40	Openning Speech by Wenkui SUN, Deputy Mayor of Tianjin Municipal People's Government Openning Speech by Chongjiu ZHAO, Deputy Minister of Ministry of Transport Openning Speech by Jianzhong HE, President of China Institute of Navigation Openning Speech by Ruri SHOJI, President of Japan Institute of Navigation Openning Speech by Seung-Gi GUG, President of Korean Institute of Navigation and Port Research
09:40-10:00	Coffee Break
Moderated by Hongbo ZHAO, Deputy Dean of TIWTE	
10:00-12:00	Topic: Promote MASS and Demonstration Cooperation in China-Japan-Korea and Asia Region Keynote Speech by Baochen ZHANG, Executive President of CIN Topic: China's Maritime SAR Services and Regional Cooperation Keynote Speech by Li ZHUO, Deputy Director General of China Maritime Search and Rescue Center Topic: The Maritime Environment Topic of the Law of the Sea Keynote Speech by Shin HEMMI, Standing Director of JIN Topic: IALA and intelligent infrastructure Keynote Speech by Minsu JEON, Professor of KINPR Topic: Research and Prospect of nonlinear dynamic response of floating body Keynote Speech by Hanbao CHEN, Director of ocean hydrodynamic research center of TIWTE Topic: Using Virtual Reality in Maritime Education and Training Keynote Speech by Hesham Helal, Vice President of International Association of Institutes of Navigation (IAIN)
Closing Ceremony Time: October 20, 2021 Afternoon	
Moderated by Xiaobo YAN, Secretary General of CIN	
15:00-16:30	Announce rewarded papers Awarding Ceremony Speech by the representative of Viet Thanh NGUYEN, Vice Dean of Faculty of Civil Engineering, University of Transport and Communications (UTC) Speech by Huaqin ZHANG, Dean of TIWTE Conference review and summary The representative of JIN introduces the preparations for the next conference



开闭幕式议程

地点：交通运输部天津水运工程科学研究院 401会议厅	
开幕式 时间：2021年10月19日上午	
主持人：中国航海学会常务副理事长 张宝晨	
09:00-09:40	天津市副市长孙文魁致辞 交通运输部副部长赵冲久致辞 中国航海学会理事长何建中致辞 日本航海学会理事长庄司るり致辞 韩国航海港湾学会理事长鞠承淇致辞
09:40-10:00	茶歇
主持人：交通运输部天津水运工程科学研究院副院长 赵洪波	
10:00-12:00	主旨演讲：推进中日韩和亚洲区MASS测试与示范合作 演讲嘉宾：中国航海学会常务副理事长 张宝晨 主旨演讲：中国海上搜救服务与区域合作 演讲嘉宾：中国海上搜救中心副主任 卓立 主旨演讲：海洋法的海洋环境专题研究 演讲嘉宾：日本航海学会常务董事逸見真 主旨演讲：国际航标协会（IALA）与智能基础设施 演讲嘉宾：韩国航海港湾学会教授 田旼樹 主旨演讲：浮体的非线性动力响应研究与展望 演讲嘉宾：交通运输部天津水运工程科学研究院海洋水动力研究中心主任 陈汉宝 主旨演讲：虚拟现实技术在海事教育和培训中的应用 演讲嘉宾：国际航行学会联合会副主席 希沙姆·希拉勒
闭幕式 时间：2021年10月20日下午	
主持人：中国航海学会秘书长 闫晓波	
15:00-16:30	公布获奖论文 颁奖仪式 越南河内交通大学土木工程学院副院长阮清越博士发言 交通运输部天津水运工程科学研究院院长张华勤发言 会议回顾和总结 下届会议轮值主办方代表介绍会议筹备情况

INTRODUCTION OF GUESTS 嘉宾介绍



Mr. ZHAO Chongjiu
赵冲久

Mr. Zhao Chongjiu is Vice Minister of the Ministry of Transport (MOT) of China, concurrently Director-General of China Maritime Rescue and Salvage Center. Mr. Zhao holds a doctor's degree and is also a senior research fellow.

Previously, he was Director-General of Tianjin Research Institute for Water Transport Engineering; Vice President of China Communications Press Co., Ltd.; Director-General of the Department of Science and Technology, MOT; Chief Engineer of MOT; Chief Planner, concurrently Director-General of the Department of Comprehensive Planning, MOT; and Vice Chairman of the Government of Xinjiang Uygur Autonomous Region.

赵冲久先生，交通运输部党组成员、副部长兼中国海上搜救中心主任，博士研究生，研究员。
曾任天津水运工程科学研究院院长、党委委员；人民交通出版社党委书记、副社长；交通运输部科技司司长；交通运输部总工程师；交通运输部党组成员兼总规划师、综合规划司司长；新疆维吾尔自治区政府副主席。



Mr. SUN Wenkui
孙文魁

The current position is the deputy mayor of Tianjin and a member of the 11th Municipal Party Committee.

现任天津市副市长，十一届市委委员。



Mr. HE Jianzhong
何建中



Mrs. Ruri Shoji
庄司 るり

Mr. He Jianzhong, Master of Business Administration, was born in November 1958 in Xiantao, Hubei Province.

He used to serve as General Manager of Shanghai Yangtze Shipping Company, Vice Director of Maritime Safety Administration of China, Vice Mayor of Dalian City, Liaoning Province, Director of Structural Reform and Regulations Department of the Ministry of Transport of China, Vice Minister of the Transport of China. He is a member of the 13th National Committee of CPPCC, Maritime Goodwill Ambassador of IMO, President of China Institute of Navigation.

何建中先生，工商管理硕士。1958年11月生，湖北仙桃人。历任上海长江轮船公司党委书记、总经理，交通部海事局党委书记兼副局长，辽宁省大连市副市长、市政府党组成员兼市口岸工委书记，交通部体改法规司司长，交通运输部党组成员兼政策法规司司长，交通运输部党组成员、副部长，现任十三届全国政协委员，国际海事组织亲善大使，中国航海学会九届理事会理事长。

Mrs. Ruri Shoji is Executive Director and Vice President of Tokyo University of Marine science and Technology, and Professor of Department of Maritime Systems Engineering of the same university. Mrs. Shoji graduated from master course of Tokyo University of Mercantile Marine in 1989, and got the Ph.D. from Yokohama National University in 2010. Her research interests include ship weather routing, marine traffic engineering, ship navigation support system and autonomous ship. She is president of Institute of Navigation and member of the Japan Society of Naval Architects and Ocean Engineers.

庄司るり女士是东京海洋科技大学执行董事兼副校长，同时也是该大学海洋系统工程系教授。庄司女士于1989年毕业于东京商船大学获得硕士学位，于2010年毕业于横滨国立大学获得博士学位。她的主要研究方向为海洋气象导航、海上交通工程、船舶航行支持系统和自主船舶。她是日本航海学会理事长和日本船舶海洋工学会会员。



Mr. Seung-Gi GUG
鞠承淇



Mr. ZHANG Baochen
张宝晨

Seung-Gi GUG graduated from the Department of Navigation at Korea Maritime & Ocean University and is granted a doctorate from Kyushu University in Japan.

He served as Head of Korea Maritime University's R&BD Center, head of Department of Coast Guard of Korea Maritime University, Asia Navigation Conference Steering Subcommittee, head of Korean Institute of Navigation and Port Research, head of Marine Venture Development Center, National Member of International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), Board Member of IALA World-Wide Academy (WWA), Chairman of IALA WWA Board, Course Supervisor & Assessor for IALA WWA AtoN Level 1 (Manager) Course and Chairman of FERNS Technical Working Group.

鞠承淇毕业于韩国海事大学航海系，并获得日本九州大学博士学位。

他曾任韩国海事大学R&BD中心负责人，韩国海事大学海岸警卫队、亚洲航海学术年会指导小组委员会负责人、韩国航海港湾学会理事长，海洋创业发展中心负责人，国际航道标志协会（IALA）成员，IALA 全球学院(WWA)董事会成员，IALA WWA董事会主席，IALA WWA AtoN 一级（管理）课程的课程主管和评估员，FERNS 技术工作主席团体。

Mr. Zhang Baochen was graduated from Dalian Maritime University with a bachelor's degree in Marine Navigation and a master's degree in Traffic Information Engineering and Control. He is a professor with special government allowances of the State Council and an expert in national sci-techforecast, strategic international sci-tech innovation cooperation, offshore oil emergency response and management. He was the director of the office of Safety Committee of the Ministry of Transport, the director general of Shandong Maritime Safety Administration, the director general of Tianjin Maritime Safety Administration and the president of China Waterborne Transport Research Institute. He is the executive president of the 9th council of the China Institute of Navigation.

张宝晨先生，毕业于大连海事大学，海洋船舶驾驶专业学士、交通信息工程与控制专业硕士，教授级高工，享受国务院政府特贴，国家科技预测、战略性国际科技创新合作、海洋石油应急与管理专家。曾任交通部安委办主任、山东海事局局长、天津海事局局长和交通运输部水运科学研究院院长等职。现任中国航海学会九届理事会常务副理事长。



Mr. ZHANG Huaqin
张华勤



Mr. ZHAO Hongbo
赵洪波

Zhang Huaqin, President of TIWTE, Doctor, Senior engineer. Expert enjoying special allowance from the State Council, Member of Ministerial Policy Advisory Committee, M.O.T., Special researcher of Tianjin Municipal Government, Vice chairman of China Water Transport Construction Association, Executive director of China Institute of Navigation, Vice chairman of the Water Transport Professional Committee of China Association for Engineering Construction Standardization, Member of the expert panel of the National Joint Research Center for the Protection and Restoration of the Yangtze River Eco-environment.

张华勤，交通运输部天津水运工程科学研究院院长，博士、正高级工程师。享受国务院特殊津贴专家，交通运输部部长政策咨询委员会委员，天津市政府特约研究员，中国水运建设行业协会副理事长，中国航海学会常务理事，中国工程建设标准化协会水运专业委员会副主任委员，国家长江生态环境保护修复联合研究中心总体专家组成员。

Zhao Hongbo, Deputy President of TIWTE, Doctor, Senior engineer. Executive director of China Ports & Harbors Association, Chairman of the Safety and Environment Professional Committee, Vice chairman of the S&T Committee. Expert in the National Expert Database for S&T Awards, Expert in Expert Database for Waterway Safety Emergency, M.O.T., Observer of Permanent International Association of Navigation Congresses (PIANC) and member of the Expert Panel on Marine Disaster Prevention in Coastal Engineering. He has presided over and participated in more than 20 projects such as 863 Program and National Key R&D Programs, has led and completed over 100 water conservancy research projects involving ports and waterways, nuclear power, wind power, etc., and has undertaken more than 20 ports and coastal projects in “the Belt and Road Initiative” countries.

赵洪波，交通运输部天津水运工程科学研究院副院长，博士、正高级工程师。中国港口协会常务理事、安全与环境专业委员会主任委员、科学技术委员会副主任委员，国家科技奖励专家库专家，交通运输部水路交通安全应急专家库专家，国际航运协会（PIANC）观察员及海岸工程海洋灾害防治专家组成员。主持和参与国家863课题、国家重点研发计划项目等20余项，主持完成国内港口航道、核电、风电等各类涉水工程研究项目100余项，承担“一带一路”相关国家港口及海岸工程研究项目20余项。



Mr. ZHUO Li
卓立

Mr. Zhuo Li was graduated from Dalian Maritime University with a bachelor's degree in Marine Navigation, and obtained a master's degree (MSc) in Maritime Administration from World Maritime University.

He is Deputy Director General of China Maritime Search and Rescue Center (CNMRCC) and Deputy Director General of Office of Emergency Management, Ministry of Transport of China.

He used to work at China COSCO Bulk Shipping (Group) Co., Ltd., China Maritime Safety Administration. He has been serving at CNMRCC since 2005, as Deputy Director of the Duty Office, Director of Command and Coordination Department successively. He has rich experience in maritime emergency response and maritime safety administration.

Now he also serves as an expert for the Joint Working Group on Harmonization of Aeronautical and Maritime Search and Rescue of the International Civil Aviation Organization and the International Maritime Organization (ICAO/IMO).

卓立，毕业于大连海运学院，船舶驾驶专业学士，世界海事大学海事管理专业硕士。曾在天津远洋运输公司船上工作8年，2003年在交通部海事局任船员管理处副处长。2005年起在中国海上搜救中心先后任总值班室副主任、指挥协调处处长、中国海上搜救中心副主任兼交通运输部应急办公室副主任。国际海事组织和国际民航组织海空联合搜救专家组成员。

Mr. Shin HEMMI
逸見真

Captain Shin Hemmi graduated from Tokyo University of Mercantile Marine in 1985 and obtained a Phd, Dr. Juris at Tsukuba University in 2006. He has a master mariner license and had been on board about 8 years. Presently, a position is held as a professor of Tokyo University of Marine Science and Technology. He has written 19 theses, 19 discourses, 9 bulletins and 4 books.

逸見真船长于1985年毕业于东京商船大学，并于2006年获得Tsukuba大学法学博士学位。他拥有海员执照，并在船上工作8年。目前，他担任东京海洋科学技术大学教授。他撰写了19篇论文、19篇演讲、9篇公报和4部书籍。



Mr. Minsu JEON
田旼樹



Mr. CHEN Hanbao
陈汉宝

Minsu JEON is the Technical Operations Manager at IALA. He is responsible for supporting and coordinating the work of the technical Committees and representing IALA to other international organisations such as IMO, IHO, PIANC and etc., in a technical capacity. He has a Master's degree in Port Engineering from the Korea Maritime University (KMU). Minsu worked as the Regional Safety Navigation Adviser in the Pacific Community (SPC) in Fiji, where he contributed to enhancing the awareness and level of safety in the Pacific region. Prior to 2016, Minsu worked with the Korea Institute of Aids to Navigation (KAtoN).

田旼樹是国际航标协会（IALA）的技术运营经理。他负责支持和协调技术委员会的工作，并以技术身份代表IALA参加其他国际组织，如IMO、IHO、PIANC等。他拥有韩国海事大学（KMU）的港口工程硕士学位。他曾担任斐济太平洋共同体（SPC）的区域安全导航顾问，为提高太平洋地区的安全意识和平做出贡献。在2016年之前，他与韩国航标研究所（KAtoN）合作。

Chen Hanbao, second level researcher, doctoral director. Director of ocean hydrodynamic research center of Tianjin Institute for Water Transport Engineering, MOT, director of base for international scientific and technology cooperation for Waterway Eco-construction and Disaster Prevention, Ministry of Science and Technology of China, visiting professor and doctoral supervisor of Hohai University and Changsha University of Technology.

He has long been engaged in the research on marine and coastal engineering, marine hydrodynamic environment and building interaction, and has made systematic innovative achievements. He has completed more than 100 scientific research and consulting work in more than 30 countries along the maritime Silk Road, and established China-Indonesia Joint Research Center of Port Construction and Disaster Mitigation 3, and established China-Bangladesh Port Construction Cooperation Research Center.

陈汉宝，二级研究员，博导。交通运输部天津水运工程科学研究院海洋水动力研究中心主任、科技部水路绿色建设与灾害防治国际科技合作示范基地主任，河海大学、长沙理工大学客座教授，博士生导师。

长期致力于海洋及海岸工程海洋水动力环境及建筑物相互作用研究并取得了系统性创新成果，在海上丝路沿线30多个国家完成100多项科研咨询工作，创建中国-印度尼西亚港口建设与灾害防治研究中心，创建中国-孟加拉港口建设联合研究中心。



Mr. Hesham Helal
希沙姆·希拉勒



Mr. Viet Thanh NGUYEN
阮清越

- Vice Dean – Maritime Postgraduate Studies Institute – Arab Academy for science, technology & Maritime Transport.
- Vice President – International Association of Institutes of Navigation (IAIN)
- President – Arab Institute of Navigation (AIN)
- Previous Experience
- General Manager of Shahin Elghanem shipping company / Kuwait
- Managing Director of MOSHARKA Logistic Co. / Sudan
- Captain onboard ships
- Published 4 books and 25 Scientific Papers
- Supervise 37 Thesis

国际航行学会联合会副主席

阿拉伯航海学会主席

阿拉伯科技与海运学院海事研究生院副院长

曾任Shahin Elghanem船运公司总经理

MOSHARKA logistics Co. / Sudan董事总经理

出版4部著作，发表25篇论文，指导37篇论文

Dr. Viet Thanh Nguyen, Vice Dean of Faculty of Civil Engineering, University of Transport and Communications (UTC), Hanoi, Vietnam, Director of Vietnam – Chinese Research and Development Center of UTC.

He is Co-Chair of Local Organization Committee of International Conference on Sustainability in Civil Engineering (ICSCE), scientific member of Asean – Japan Technical Port Working Group. He is a principal investigator of a research project financially supported by The Belt and Road Special Foundation of the State Key Laboratory of Hydrology-Water Resources and Hydraulic Engineering, China.

He has long been engaged in the research on hydrodynamic and engineering for port, estuary and coastal engineering. Especially, research on back siltation in navigation channels and countermeasures in Vietnam.

阮清越博士，越南河内交通大学土木工程学院副院长，中越联合研发中心越方负责人。国际土木工程可持续性会议（ICSCE）地方组织委员会的联合主席，东盟-日本港口技术工作组的学科成员。中国水文水资源与水利工程国家重点实验室“一带一路”专项基金资助项目的主要研究者。

长期从事港口海岸及近海工程水动力与工程技术研究，特别是越南航道回淤及对策研究方面。



PAPER PRESENTATION AT A GLANCE

October 19th				
Time	Program			
	Session A (Room 102)	Session B (Room 323)	Session C (Room 417)	Session D (Room 418)
08:00-12:00	Opening Ceremony at Conference Hall 401			
	Lunch			
13:30-13:50	Session A1	Session B1	Session C1	Session D1
13:50-14:10				
14:10-14:30				
	Coffee Break			
15:00-15:20	Session A2	Session B2	Session C2	Session D2
15:20-15:40				
15:40-16:00				
16:00-16:20				
	Coffee Break			
16:50-17:10	Session A3	Session B3	Session C3	Session D4
17:10-17:30				
17:30-17:50				

October 20th				
Time	Program			
	Room 1 (Room 102)	Room 2 (Room 323)	Room 3 (Room 417)	Room 4 (Room 418)
08:00-08:20	Session A4	Session B4	Session C4	Session D4
08:20-08:40				
08:40-09:00				
	Coffee Break			
09:30-09:50	Session A5	Session B5	Session C5	Session D5
09:50-10:10				
10:10-10:30				
10:30-10:50				
11:30-12:00	Evaluation Meeting (Evaluation Experts) Technical Tour (Participants) Lunch			

论文交流

第二天 10月19日				
时间	活动安排			
	会议室A (102室)	会议室B (323室)	会议室C (417室)	会议室D (418室)
08:00-12:00	开幕式 (会议厅401)			
	午餐			
13:30-13:50	会议室 A1	会议室 B1	会议室 C1	会议室 D1
13:50-14:10				
14:10-14:30				
	茶歇			
15:00-15:20	会议室 A2	会议室 B2	会议室 C2	会议室 D2
15:20-15:40				
15:40-16:00				
16:00-16:20				
	茶歇			
16:50-17:10	会议室 A3	会议室 B3	会议室 C3	会议室 D4
17:10-17:30				
17:30-17:50				

第三天 10月20日							
时间	日程安排						
	会议室A (102室)	会议室B (323室)	会议室C (417室)	会议室D (418室)			
08:00-08:20	会议室A4	会议室B4	会议室C4	会议室D4			
08:20-08:40							
08:40-09:00							
	茶歇						
09:30-09:50	会议室A5	会议室B5	会议室C5	会议室D5			
09:50-10:10							
10:10-10:30							
10:30-10:50							
11:30-12:00	论文评审会 (评审专家) 参观交通运输部天津水运工程科学研究院大型水动力实验中心 (国家交通运输科普基地) (参会人员)						
	午餐						



PAPER SESSION PLANNING 论文分组安排

October 19th (Tues.)

SESSION A

<A1>

Topic: Electronics and Information Technologies in Maritime Industry I

Room 102 13:30-14:30

Chair: Jingxian LIU (CIN)

Co-chair: Deuk-Jin PARK(KINPR)

A1-1

A Lightweight Computation Target Localization Algorithm using Information Fusion in WSNs-based Marine Search and Rescue

一种基于无线传感网的海上搜救信息融合轻量级目标定位算法

Xiaojun MEI, Huafeng WU, Yanzhen CHEN, Hao ZHANG, Qiannan ZHANG

A1-2

Analysis of adjusting Departure Time for Ferry Collision Avoidance Based on AIS

基于AIS系统有关渡轮避碰对其离港时间调整的分析

Wenbin BAI, Hitoi TAMARU

A1-3

Satellite application of the Land-Sea-Air-Space integrated maritime traffic safety and rescue system in China

卫星在我国陆海空一体化海上交通安全救援体系中的应用

Shengli LIU, Yang ZHANG, Chen WANG

<A2>

Topic: Electronics and Information Technologies in Maritime Industry II

Room 102 15:00-16:20

Chair: Hitoi TAMARU (JIN)

Co-chair: Baozhu JIA (CIN)

A2-1

Sparse sensor placement for ocean monitoring based on entropy weight method

基于熵权法的海洋监测稀疏传感器部署研究

Qiannan ZHANG, Huafeng WU, Jiangfeng XIAN, Xiaojun MEI, Yuanyuan ZHANG, Linian LIANG

A2-2

A novel framework for maritime traffic management via ship imaging trajectory

一种面向智能船舶交通管理的船舶图像轨迹提取框架

Xinqiang CHEN

A2-3

Experimental Investigation on Hydrodynamic Characteristics of a Ship due to Bank Effects

浅滩效应对于船舶水文特性影响的实验性调研

Anh Khoa VO, Thi Loan MAI, Myungjun JEON, Hyeon Kyu YOON

A2-4

Latency measurement depending on the decision making of deck officers considered in Maritime Autonomous Surface Ships

基于驾驶员在海上水面自主航行船舶上进行操船措施制定的潜在措施

Deuk-Jin PARK, Jeong-Bin YIM

<A3>

Topic: Electronics and Information Technologies in Maritime Industry III

Room 102 16:50-17:50

Chair: Deuk-Jin PARK (KINPR)

Co-chair: Wei GUAN (CIN)

A3-1

Simulation of Vessel Traffic Flow in Port Waters Based on Cellular Automata and Multi Agent

基于元胞自动机和多智能体的港口水域船舶交通流仿真研究

Xiaojie HUO, Wen LIU, Yan LI, Jingxian LIU

A3-2

Research on Onboard PNT Information Integrity Monitoring

船舶PNT信息完好性监测研究

Yi JIANG, Yue WANG, Han SHAO

A3-3

Suggested the need to prepare Urban design guideline for Blue Carbon Biomass conservation and habitat protection

制订城市设计指南中的蓝碳型生态保护和栖息地保护之必要性建议

HWANG SUN AH, Jee-Hyun SOHN



PAPER SESSION 论文分组安排

October 19th (Tues.)

SESSION B

<B1>

Topic: Logistics & Environment I

Room 323 13:30-14:30

Chair: Yoshiaki KUNIEDA (JIN)

Co-chair: Zhongzhou FAN (CIN)

B1-1

COVID-19 Impact on Maritime Transportation between China and Southeast Asian Nations

COVID-19对中国与东南亚海上运输的影响

Siheng CHANG, Peng PENG, Jinping TENG, Jinhai CHEN

B1-2

Study on China-East Africa shipping hub port decision based on cargo flow distribution model

基于货流分配模型的中国—东非海运枢纽港研究

Lequn ZHU, Ran ZHOU, Xiaojun LI

B1-3

Possibility of Maritime Transport in Large-scale Disasters in Japan

日本大规模海难事故中海事运输的可能性分析

Taro ARATANI, Eiji KOHAMA, Yousuke OHYA, Takahiro MAJIMA

<B2>

Topic: Maritime Traffic & Accident

Room 323 15:00-16:20

Chair: Jeong-Bin Yim (KINPR)

Co-chair: Zhongzhou FAN (CIN)

B2-1

Application of association rule analysis in total loss accident

关联规则在全损事故中的应用

He LAN, Xiaoxue MA, Weiliang QIAO, Peilong HE

B2-2

Cause Investigation for Rapid Turning Accident of Ro-Ro Ferry Ship Sewol

“岁月号”客滚渡轮快速翻沉事故原因的调查研究

Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park, Sang-Gab Lee

B2-3

Cause Investigation for Flooding · Sinking Accident of Ro-Ro Ferry Ship Sewol

“岁月号”客滚渡轮进水下沉事故原因的调查研究

Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park, Sang-Gab Lee

B2-4

Cause Investigation for Hull Damage of Ro-Ro Ferry Ship Sewol Sinking Accident

“岁月号”客滚渡轮船体破损事故原因的调查研究

Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park, Sang-Gab Lee

<B3> Topic:Maritime Education and Training I

Room 323 16:50-17:50

Chair: Taro ARATANI (JIN)

Co-chair: Hyeon Kyu YOON (KINPR)

B3-1

Research Based on The Comparison of ECDIS Operation on Board and Training Effect

基于实船电子海图操作与培训效果对比研究

Shun LIU, Run WANG, Chengyu XIAO

B3-2

"Effect of introducing ship handling training for collision avoidance in anchoring training

-Effect of ship handling training for collision avoidance by group work-

锚泊培训在船舶避碰培训中的影响——通过团队作业进行船舶进行避碰培训的影响

Yoshiaki KUNIEDA, Sann DEE, Takumi HOSOMI, Hideyuki KASHIMA, Koji MURAI

B3-3

Analysis of Strategies for Improving the Teaching Quality of Seafarer Training Based on Investigation of Learning Situation

基于学情调查的海员培训教学质量提升策略探析——以6所高职院校航海类专业为例

Hailong XUE, Qi WANG, Lixiao JIA



PAPER SESSION 论文分组安排

October 19th (Tues.)

SESSION C

<C1>

Topic: Logistics & Environment II

Room 417 13:30-14:30

Chair: Xu ZHAO (CIN)

Co-chair: Koji MURAI (JIN)

C1-1

Missing Data Imputation for Estimating Shipment Size of Container Ships

集装箱船舶数据缺失情况下装载能力的虚拟估算

Hiroyuki KOSAKA, Taro ARATANI

C1-2

Line-of-Sight Path Following of Ship using Cross Track Limit

船舶采用交叉轨迹界定的视线路径跟踪

Wonjin CHOI, Seung Hwan JUN

C1-3

Analysis of ship maneuvering performance in the presence of rudder order delay

舵令延迟现象存在的情况下对船舶操纵性能的影响分析

Joo-Young JEON, Jeong-Bin YIM

<C2>

Topic: Port Construction & Costal Area Development

Room 417 15:00-16:20

Chair: Qiang ZHANG (CIN)

Co-chair: Jeong-Bin Yim (KINPR)

C2-1

Simplification method of vessel scheduling optimization model under multi-time parameter constraints

多时间参数约束下的船舶调度优化模型简化方法

Dongdong LIU, Yuchuang WANG, Guoyou SHI, Katsutoshi HIRAYAMA

C2-2

Experimental study and engineering application of wave and current forces on bridge foundation under the influence of multiple factors
多因素影响下跨海桥梁基础受波流力试验研究及工程应用

Longzai GE, Haiyuan LIU, Mingyang LIU

C2-3

Research on Ecological Planning Strategy of the Yangtze-to-Huai River Water Diversion Project Based on the Guidance of Landscape Construction
航道景观化导向下的引江济淮工程生态规划策略研究

Zhe LIU, Zexin LEI, Yanhua YANG, Lanyu YANG, Qinying ZHANG

C2-4

Application Research and Implementation of Image Analysis Artificial Intelligence Technology in AtoNs Patrol
影像分析人工智能AI技术在航标巡视的应用研究与实现

Jinxing SHAO, Junping YE, Ronghua WANG

<C3>

Topic: Navigation, Route, Ship Handling I

Room 417 16:50-17:50

Chair: Jingxian LIU (CIN)

Co-chair: Koji MURAI (JIN)

C3-1

Suggestions for Revising the Ship's Routing of Fodu Fairway in Ningbozhoushan Port

宁波舟山港佛渡水道定线制修改建议

Feidi LI, Kun HUANG, Guohua PAN, Yijie CHEN, Linlin HUANG

C3-2

Experiment to observe the rudder order delay affecting ship's maneuverability in Maritime Autonomous Surface Ships
海上水面自主航行船舶上舵令延迟对船舶操纵的实践性观察

Ji-Su An, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim

C3-3

Parameter identification algorithm of ship model based on nonlinear innovation processing of arctangent function
基于双曲正切函数非线性新息改进的船舶模型极大似然辨识算法

Wenxue SU, Qiang ZHANG, Xiangfei MENG



PAPER SESSION 论文分组安排

October 19th (Tues.)

SESSION D

<D1>

Topic: Navigation, Route, Ship Handling II

Room 418 13:30-14:30

Chair: Hitoi TAMARU (JIN)

Co-chair: Sung-June KIM (KINPR)

D1-1

Algorithm on Safe length of Anchor Chain for Large and Medium Sized Vessels Anchoring in Wind Field
风场中大中型锚泊船安全出链长度的算法

Zhiwen CHAI, Liyong SHI, Shoujun GAO

D1-2

A method for estimating the number of collision candidates of ships based on the probabilistic distribution of sailing conditions on a ship occurrence line
基于船舶航行条件分布概率的船舶碰撞可能性之估算方法

Fujio KANEKO

D1-3

MASS path planning in complex sea based on the improved Q-learning algorithm
基于改进Q学习的自主水面船舶复杂海域路径规划

Mingyang ZHAO, Wei GUAN, Xianku ZHANG

<D2>

Topic: Navigation, Route, Ship Handling III

Room 418 15:00-16:20

Chair: Sung-June KIM (KINPR)

Co-chair: Yoshiaki KUNIEDA (JIN)

D2-1

Ship Route Planning Method for Inland Intersection Waters
面向交汇水域的内河船舶路径规划算法研究

Zheng CHEN, Xiyu ZHANG, Guiping ZHANG, Liu YI

D2-2

Very Large Carrier integrating numerical calculation and ship model experiment
融合数值计算和船模实验的超大型船舶下沉量计算研究

Yiwei LIU, Jingxian LIU, Gang CHEN, Huanhuan LI

D2-3

Cooperative path following control for the USV-UAV system via the 3D Guidance
基于3D制导的无人船-无人机协同路径跟踪控制

Guoqing ZHANG, Jiqiang LI, Xianku ZHANG

D2-4

Experiment to observe the rudder order delay affecting collision avoidance in Maritime Autonomous Surface Ships
海上水面自主航行船舶上舵令延迟对避碰之影响的实践性观察

Soo-Min Park, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim

<D3>

Topic: Navigation, Route, Ship Handling IV

Room 418 16:50-17:50

Chair: Fujio KANEKO (JIN)

Co-chair: Baozhu JIA (CIN)

D3-1

Research on the Ships' Transit Capacity in the No3 Precautionary Area of Qiongzhou Strait
琼州海峡第三警戒区船舶通过能力研究

Zhongzhou FAN, Pengfei JIANG, Kangli LIU, Haibo XIE

D3-2

Extended State Observer-based Intelligent Parameter Identification of Dynamic Model for Autonomous Vessels
一种基于扩展状态观测器的智能船舶运动模型智能辨识方法研究

Man ZHU, Wuqiang SUN, Yuanqiao WEN, Chunhui ZHOU

D3-3

On the Swells and the Long Period Waves of the Coast in Toyama Bay
日本富山湾沿海的涌浪和长周期海浪

Masashi KAWAI, Noriko NISHII, Hideki KADOMURA



PAPER SESSION 论文分组安排

October 20th (Wed.)

SESSION A

<A4>

Topic: Ship Technology and Ocean Structures I

Room 102 08:00-09:00

Chair: Jeong-Bin Yim (KINPR)

Co-chair: Taro ARATANI (JIN)

A4-1

Research on dual sliding mode disturbance rejection control of ship propulsion permanent magnet synchronous motor
船舶推进永磁同步电机双滑模抗扰控制研究

Zaifa CHEN

A4-2

Proposal of Quantitative Evaluation of Good Seamanship using Physiological Data toward MASS
利用趋于MASS架构的生理学数据进行良好船艺定量评估的建议

Koji MURAI, Chihiro NISHIZAKI, Jun KAYANO, Hitoi TAMARU, Ruri SHOJI

A4-3

Tidal Current Forecasting on The vessel's Passage Using Inverse Distance Weighted Method
潮汐速度反距离加权算法 (IDW算法) 的精简算法

Hyungi KIM, Maki TORIBUCHI

<A5>

Topic: Ship Technology and Ocean Structures II

Room 102 09:30-10:50

Chair: Qiang ZHANG (CIN)

Co-chair: Fujio KANEKO (JIN)

A5-1

Effect of Leading-Edge Protuberances on Aerodynamic Characteristics of the Wingsail
前缘凸起的展向波长对翼帆气动特性的影响研究

Chen LI, Peiting SUN, Hongming WANG

A5-2

Demarcation of the definition of ship
船舶定义的划分

Kazuo HAMAGUCHI, Shin HEMMI

A5-3

Designing Human-Ship Interaction System for Auto-Remote Control in MASS
基于MASS架构的自动远程遥控人-船交互系统的设计

Hong-Jin Kim, Jeong-Bin YIM, Deuk-Jin PARK

A5-4

Research on New Technology Application in the Construction of Maritime, Rescue and Salvage Equipment
新技术在海事救捞装备建设中的应用研究

Libo YANG, Bing CHEN, Yang ZHANG



PAPER SESSION 论文分组安排

October 20th (Wed.)

SESSION B

<B4>

Topic:Maritime Education and Training II

Room 323 08:00-09:00

Chair: Qiang ZHANG (CIN)

Co-chair: Hitoi TAMARU (JIN)

B4-1

Life Raft Simulation Training System based on Virtual Reality Glasses

基于VR眼镜的救生筏模拟训练系统

Xiaobin JIANG, Feixiang SHI, Wenhui DONG, Jie WANG

B4-2

Study on Training and Certification for Non-watch keeping Crew on Large Cruise Vessel

国内大型邮轮在船开展非值班船员培训,评估和发证的研究

Zhiyi WEI

B4-3

A Feasibility Study of Cooperation to Produce Merchant Marine Students Between Public in Institution and Marine Department

公共机构与海事部门合作培养商船学生的可行性研究

Sudarat RONGTHONG, Sarawut LUKSANATO

<B5>

Topic:General Maritime & Affairs & Technologies& Laws

Room 323 09:30-10:50

Chair: Taro ARATANI (JIN)

Co-chair: Jingxian LIU (CIN)

B5-1

Study on the Judicial Practice of the Subject of Liability for Oil Spills from Ship Collisions

船舶碰撞溢油责任主体司法实践研究

Bingbing LIAO

B5-2

Study on the application of PDCA in LNG Ship Management

论PDCA在LNG船舶管理中的运用

Kai SHAN

B5-3

The textual research and explication based on the nautical navigation on ancient geographical names in the “The Selden Map of China”

基于航海学的《雪尔登中国地图》苏门答腊岛西岸新发现两古地名试解

Zuojing SU, Guangqi SUN, Xiayi CHEN

B5-4

Addressing the Legal Framework to accommodate MASS with manned ships and multiple ship collision situations

适应大规模载人船舶和多重船舶碰撞情况的法律框架

Frederick James Francis



PAPER SESSION 论文分组安排

October 20th (Wed.)

SESSION C

<C4>

Topic: Navigation, Route, Ship Handling V

Room 417 08:00-09:00

Chair: Sun-Ah Hwang (KINPR)

Co-chair: Xin WANG (CIN)

C4-1

Interpretability Approach Based on Model Reference and Polynomial for Ship Maneuvering Identification Modeling
船舶操纵运动模型的可解释多项式灰箱辨识建模

Bin MEI, Licheng SUN, Guoyou SHI, Jie ZHANG, Shicai CHEN

C4-2

Spatiotemporal analysis of navigable environmental risks for Arctic shipping routes based on fuzzy evidential reasoning: A case of Northeast Passage
基于模糊证据推理的北极航线通航环境风险时空动态分析——以东北航道为例

Yang LIU, Xiaoxue MA, Weiliang QIAO, Jingwen ZHANG

C4-3

Quantitative Assessment of Collision Risk around Bending Points in Shipping Route
船舶航线转向点周边碰撞风险的定量评估

Isamu WATANABE, Shinji ITO, Ryusei IKEDA, Kenta USUI, Hiraku FUJIMOTO

<C5>

Topic: Navigation, Route, Ship Handling VII

Room 417 09:30-10:50

Chair: Zhongzhou FAN (CIN)

Co-chair: Hitoi TAMARU (JIN)

C5-1

USV path planning based on improved DWA algorithm compliant with GOLREGs
基于COLREGs改进的DWA算法无人船路径规划

Kuo WANG, Wei GUAN, Xianku ZHANG

C5-2

An Experimental Study on Effect of Loading Conditions on Hydrodynamic Forces Acting on a Ship
流体动力作用于船舶对于装载条件之影响的实验性研究

Van Thuan MAI, San LEE, Hyeon Kyu YOON, Thi Thanh Diep NGUYEN

C5-3

Research on Large Vessels Entering Port by Tide through the Refined Segmented Long Channel
大型船舶长航道精细化分段乘潮进港研究

Wenqiang GUO, Xinyu ZHANG, Jingyun WANG, Bingdong YANG



PAPER SESSION 论文分组安排

October 20th (Wed.)

SESSION D

<D4>

Topic: Navigation, Route, Ship Handling VI

Room 418 08:00-09:00

Chair: Xu ZHAO (CIN)

Co-chair: Sung-June KIM (KINPR)

D4-1

An Automatic Collision Avoidance Method for Ferry in Tokyo Bay Entrance Based on Deep Reinforcement Learning
一种基于深度加强学习的东京湾入口处渡轮自动避碰方法

Chaoyang WU, Hitoi TAMARU, Wei GUAN

D4-2

Research on Wind Influence and Safety Guarantee of 20,000 TEU Container Ship Entering Harbor
2万标箱集装箱船舶进港受风影响分析及安全保障研究

Xianwei KONG, Shuai ZHANG, Yang LIU, Guangyao WU, Xiaosong LI

<D5>

Topic: Navigation, Route, Ship Handling VII

Room 418 09:30-10:50

Chair: Isamu WATANABE (JIN)

Co-chair: Sun-Ah Hwang (KINPR)

D5-1

Analysis the Turning Circle Features of Training Ship M/V HANNARA
实习船“M/V HANNARA”号旋回圈的特性分析

Seung-Ah BYUN, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim

D5-2

A study on ship navigation safety in wind farm waters based on yaw threshold
基于偏航阈值的风电场水域的船舶航行安全研究

Zhi YAO, Jinping TENG, Siheng CHANG, Jinhai CHEN

D5-3

Study on setting of safety distance for LNG carrier navigating in Jiangsu section of Yangtze River
长江江苏段LNG船舶航行安全距离设置研究

Weibing WU, Shicai CHEN

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