

**ANC 2021 PAPER SESSIONS**

Section	A	B	C	D
<p align="center"><b>Section One (Oct.19 13:30-14:30)</b></p>	<p>Chair: Jingxian LIU(CIN) Co-chair: Jeong-Bin Yim(KINPR)</p> <p><b>A Lightweight Computation Target Localization Algorithm using Information Fusion in WSNs-based Marine Search and Rescue</b> Xiaojun MEI, Huafeng WU, Yanzhen CHEN, Hao ZHANG, Qiannan ZHANG</p> <p><b>Analysis of adjusting Departure Time for Ferry Collision Avoidance Based on AIS</b></p> <p>Wenbin BAI, Hitoi TAMARU</p> <p><b>Satellite application of the Land-Sea-Air-Space integrated maritime traffic safety and rescue system in China</b> Shengli LIU, Yang ZHANG, Chen WANG</p>	<p>Chair: Yoshiaki KUNIEDA(JIN) Co-chair: Zhongzhou FAN(CIN)</p> <p><b>COVID-19 Impact on Maritime Transportation between China and Southeast Asian Nations</b></p> <p>Siheng CHANG, Peng PENG, Jinping TENG, Jinhai CHEN</p> <p><b>Study on China-East Africa shipping hub port decision based on cargo flow distribution model</b></p> <p>Lequn ZHU, Ran ZHOU, Xiaojun LI</p> <p><b>Possibility of Maritime Transport in Large-scale Disasters in Japan</b></p> <p>Taro ARATANI, Eiji KOHAMA, Yousuke OHYA, Takahiro MAJIMA</p>	<p>Chair: Wenxin JIANG(CIN) Co-chair: Koji MURAI(JIN)</p> <p><b>Missing Data Imputation for Estimating Shipment Size of Container Ships</b></p> <p>Hiroyuki KOSAKA, Taro ARATANI</p> <p><b>Suggested the need to prepare Urban design guideline for Blue Carbon Biomass conservation and habitat protection</b> Sun-Ah Hwang, Jee-Hyun SOHN</p>	<p>Chair: Hitoi TAMARU(JIN) Co-chair: Sung-June KIM(KINPR)</p> <p><b>Algorithm on Safe length of Anchor Chain for Large and Medium Sized Vessels Anchoring in Wind Field</b></p> <p>Zhiwen CHAI, Liyong SHI, Shoujun GAO</p> <p><b>A method for estimating the number of collision candidates of ships based on the probabilistic distribution of sailing conditions on a ship occurrence line</b></p> <p>Fujio KANEKO</p> <p><b>MASS path planning in complex sea based on the improved Q-learning algorithm</b></p> <p>Mingyang ZHAO, Wei GUAN, Xianku ZHANG</p>

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<p align="center"><b>Section Two (Oct.19 15:00-16:20)</b></p>	Chair: Hitoi TAMARU(JIN) Co-chair: Baozhu JIA(CIN)	Chair: Jeong-Bin Yim(KINPR) Co-chair: Zhongzhou FAN(CIN)	Chair: Qiang ZHANG(CIN) Co-chair: Deuk-Jin PARK(KINPR)	Chair: Sung-June KIM(KINPR) Co-chair: Yoshiaki KUNIEDA(JIN)
	<p><b>Sparse sensor placement for ocean monitoring based on entropy weight method</b></p> Qiannan ZHANG, Huafeng WU, Jiangfeng XIAN, Xiaojun MEI, Yuanyuan ZHANG, Linian LIANG	<p><b>Cause Investigation for Rapid Turning Accident of Ro-Ro Ferry Ship Sewol</b></p> Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park	<p><b>Simplification method of vessel scheduling optimization model under multi-time parameter constraints</b></p> Dongdong LIU, Yuchuang WANG, Guoyou SHI, Katsutoshi HIRAYAMA	<p><b>Ship Route Planning Method for Inland Intersection Waters</b></p> Zheng CHEN, Xiyu ZHANG, Guiping ZHANG, Liu YI
	<p><b>A novel framework for maritime traffic management via ship imaging trajectory</b></p> Xinqiang CHEN	<p><b>Application of association rule analysis in total loss accident</b></p> He LAN, Xiaoxue MA, Weiliang QIAO, Peilong HE	<p><b>Experimental study and engineering application of wave and current forces on bridge foundation under the influence of multiple factors</b></p> Longzai GE, Haiyuan LIU, Mingyang LIU	<p><b>Very Large Carrier integrating numerical calculation and ship model experiment</b></p> Yiwei LIU, Jingxian LIU, Gang CHEN, Huanhuan LI
	<p><b>Experimental Investigation on Hydrodynamic Characteristics of a Ship due to Bank Effects</b></p> Anh Khoa VO, Thi Loan MAI, Myungjun JEON, Hyeon Kyu YOON	<p><b>Cause Investigation for Flooding Sinking Accident of Ro-Ro Ferry Ship Sewol</b></p> Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park	<p><b>Research on Ecological Planning Strategy of the Yangtze-to-Huai River Water Diversion Project Based on the Guidance of Landscape Construction</b></p> Zhe LIU, Zexin LEI, Yanhua YANG, Lanyu YANG, Qinying ZHANG	<p><b>Cooperative path following control for the USV-UAV system via the 3D Guidance</b></p> Guoqing ZHANG, Jiqiang LI, Xianku ZHANG
<p><b>Latency measurement depending on the decision making of deck officers considered in Maritime Autonomous Surface Ships</b></p> Deuk-Jin PARK, Jeong-Bin YIM	<p><b>Cause Investigation for Hull Damage of Ro-Ro Ferry Ship Sewol Sinking Accident</b></p> Jae-Seok Lee, Young-Gu Chung, Chan-Bae Park	<p><b>Application Research and Implementation of Image Analysis Artificial Intelligence Technology in AtoNs Patrol</b></p> Jinxing SHAO, Junping YE, Ronghua WANG	<p><b>Analysis the Turning Circle Features of Training Ship M/V HANNARA</b></p> Seung-Ah BYUN, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim	

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Section Three (Oct.19 16:50-17:50)	<b>Simulation of Vessel Traffic Flow in Port Waters Based on Cellular Automata and Multi Agent</b>  Xiaojie HUO, Wen LIU, Yan LI, Jingxian LIU	<b>Research Based on The Comparison of ECDIS Operation on Board and Training Effect</b>  Shun LIU, Run WANG, Chengyu XIAO	<b>Suggestions for Revising the Ship's Routing of Fodun Fairway in Ningbo Zhoushan Port</b> Feidi LI, Kun HUANG, Guohua PAN, Yijie CHEN, Linlin HUANG	<b>Research on the Ships' Transit Capacity in the No.3 Precautionary Area of Qiongzhou Strait</b>  Zhongzhou FAN, Pengfei JIANG, Kangli LIU, Haibo XIE
	<b>Research on Onboard PNT Information Integrity Monitoring</b>  Yi JIANG, Yue WANG, Han SHAO	<b>Effect of introducing ship handling training for collision avoidance in anchoring training</b> -Effect of ship handling training for collision avoidance by ground work- Yoshiaki KUNIEDA, Sann DEE, Takumi HOSOMI, Hideyuki KASHIMA, Koji MURAI	<b>Experiment to observe the rudder order delay affecting ship's maneuverability in Maritime Autonomous Surface Ships</b>  Ji-Su An, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim	<b>Extended State Observer-based Intelligent Parameter Identification of Dynamic Model for Autonomous Vessels</b>  Man ZHU, Wuqiang SUN, Yuanqiao WEN, Chunhui ZHOU
	<b>Line-of-Sight Path Following of Ship using Cross Track Limit</b>  Wonjin CHOI, Seung Hwan JUN	<b>Analysis of Strategies for Improving the Teaching Quality of Seafarer Training Based on Investigation of Learning Situation</b>  Hailong XUE, Qi WANG, Lixiao JIA	<b>Parameter identification algorithm of ship model based on nonlinear innovation processing of arctangent function</b> Wenxue SU, Qiang ZHANG, Xiangfei MENG	<b>On the Swells and the Long Period Waves of the Coast in Toyama Bay</b>  Masashi KAWAI, Noriko NISHII, Hideki KADOMURA

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Section Four (Oct.20 08:00-9:00)	<p><b>Research on dual sliding mode disturbance rejection control of ship propulsion permanent magnet synchronous motor</b></p> <p>Zaifa CHEN</p>	<p><b>Life Raft Simulation Training System based on Virtual Reality Glasses</b></p> <p>Xiaobin JIANG, Feixiang SHI, Wenhai DONG, Jie WANG</p>	<p><b>Interpretability Approach Based on Model Reference and Polynomial for Ship Maneuvering Identification Modeling</b></p> <p>Bin MEI, Licheng SUN, Guoyou SHI, Jie ZHANG, Shicai CHEN</p>	<p><b>Analysis of ship maneuvering performance in the presence of rudder order delay</b></p> <p>Joo-Young JEON, Jeong-Bin YIM</p>
	<p><b>Proposal of Quantitative Evaluation of Good Seamanship using Physiological Data toward MASS</b></p> <p>Koji MURAI, Chihiro NISHIZAKI, Jun KAYANO, Hitoi TAMARU, Ruri SHOJI</p>	<p><b>Study on Training and Certification for Non-watch keeping Crew on Large Cruise Vessel</b></p> <p>Zhiyi WEI</p>	<p><b>Spatiotemporal analysis of navigable environmental risks for Arctic shipping routes based on fuzzy evidential reasoning: A case of Northeast Passage</b></p> <p>Yang LIU, Xiaoxue MA, Weiliang QIAO, Jingwen ZHANG</p>	<p><b>An Automatic Collision Avoidance Method for Ferry in Tokyo Bay Entrance Based on Deep Reinforcement Learning</b></p> <p>Chaoyang WU, Hitoi TAMARU, Wei GUAN</p>
	<p><b>Simplified Method for Calculation of Tide Speed with IDW interpolation</b></p> <p>Hyungi KIM, Maki TORIBUCHI</p>	<p><b>A Feasibility Study of Cooperation to Produce Merchant Marine Students Between Public in Institution and Marine Department</b></p> <p>Sudarat RONGTHONG, Sarawut LUKSANATO</p>	<p><b>Quantitative Assessment of Collision Risk around Bending Points in Shipping Route</b></p> <p>Isamu WATANABE, Shinji ITO, Ryusei IKEDA, Kenta USUI, Hiraku FUJIMOTO</p>	<p><b>Research on Wind Influence and Safety Guarantee of 20,000 TEU Container Ship Entering Harbor</b></p> <p>Xianwei KONG, Shuai ZHANG, Yang LIU, Guangyao WU, Xiaosong LI</p>

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<b>Section Five (Oct.20 9:30-10:50)</b>	<b>Effect of Leading-Edge Protuberances on Aerodynamic Characteristics of the Wingsail</b> Chen LI, Peiting SUN, Hongming WANG	<b>Study on the Judicial Practice of the Subject of Liability for Oil Spills from Ship Collisions</b> Bingbing LIAO	<b>USV path planning based on improved DWA algorithm compliant with GOLREGs</b> Kuo WANG, Wei GUAN, Xianku ZHANG	<b>Experiment to observe the rudder order delay affecting collision avoidance in Maritime Autonomous Surface Ships</b> Soo-Min Park, Hwa-Sop Roh, Deuk-Jin Park, Jeong-Bin Yim
	<b>Demarcation of the definition of ship</b> Kazuo HAMAGUCHI, Shin HEMMI	<b>Study on the application of PDCA in LNG Ship Management</b> Kai SHAN	<b>An Experimental Study on Effect of Loading Conditions on Hydrodynamic Forces Acting on a Ship</b> Van Thuan MAI, San LEE, Hyeon Kyu YOON	<b>A study on ship navigation safety in wind farm waters based on yaw threshold</b> Zhi YAO, Jinping TENG, Siheng CHANG, Jinhai CHEN
	<b>Designing Human-Ship Interaction System for Auto-Remote Control in MASS</b> Hong-Jin Kim, Jeong-Bin YIM, Deuk-Jin PARK	<b>The textual research and explication based on the nautical navigation on ancient geographical names in the “The Selden Map of China”</b> Zuojing SU, Guangqi SUN, Xiayi CHEN	<b>Research on Large Vessels Entering Port by Tide through the Refined Segmented Long Channel</b> Wenqiang GUO, Xinyu ZHANG, Jingyun WANG, Bingdong YANG	<b>Study on setting of safety distance for LNG carrier navigating in Jiangsu section of Yangtze River</b> Weibing WU, Shicai CHEN
	<b>Research on New Technology Application in the Construction of Maritime, Rescue and Salvage Equipment</b> Libo YANG, Bing CHEN, Yang ZHANG	<b>Addressing the Legal Framework to accommodate MASS with manned ships and multiple ship collision situations</b> Frederick James Francis		