

Agenda for WMTC'18

Updated on Nov. 20, 2018

Dec.04		Room
02:00pm - 05:00pm	WMTC Congress Meeting	Room 2
Dec.05		Room
09:00am - 12:00am	Opening Plenary & Keynote Speech Session	Hall A
	Coffee Break	Hall B&C
01:30pm - 05:00pm	Panel Sessions (6 Parallel Sessions)	Room 1-6
12:00am - 01:30pm	Lunch	Floor 25
06:00pm - 08:00pm	Welcome Reception	Hall A
Dec.06		Room
09:00am- 05:00pm	Panel Sessions (6 Parallel Sessions)	Room 1-6
	Coffee Break	Hall B&C
12:00am - 01:30pm	Lunch	Floor 25
10:00am - 04:00pm	Indoor Navigation Skill Competition	Hall A
10:00am - 10:45am	Digital & Connection - ABB Seminar	VIP Room
02:00pm - 02:45pm	Passenger Vessels with Azipod® M - ABB Seminar	VIP Room
09:00am - 12:00am	WMTC'18 Student Innovative Marine Design Competition	Room 7
Dec.07		Room
09:00am - 05:00pm	Panel Sessions (6 Parallel Sessions)	Room 1-6
	Coffee Break	Hall B&C
12:00am - 01:30pm	Lunch	Floor 25
02:00pm - 05:00pm	WMTC Congress Meeting	Room 7
06:00pm - 08:00pm	Closing Ceremony	Hall A

* Please check the notice on-site for the accurate agenda.



Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Morning	
Opening Plenary & Keynote Speech	
Venue: Ball Room A, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Prof. Jiameng WU, Acting Chair of WMTC18, MARIC, China	
9:00-9:10	Welcome Speech by Mr. Wenhua XING, President, SSNAME
9:10-9:20	Welcome Speech by Mr. Martin Toyen, President, SNAME
9:20-9:30	Special Speech by Mr. Gang CAO, Deputy Counselor of Equipment Manufacturing Industries Department of Ministry of Industry & Information Technology, PRC
9:30-9:40	Special Speech by Shanghai Municipal Commission of Economy and Informatization
9:40-9:50	Special Speech by Ms. Li CHEN, Vice President, Shanghai Association for Science and Technology
Session Chair: Mr. Martin Toyen, President, SNAME, USA	
9:50-10:15	Topic: Dealing with the Challenges and Chances of New Maritime Technology Mr. Andreas Nordseth, Director General, Danish Maritime Authority
10:15-10:30	Coffee Break
10:30-10:55	Topic: A Shipowner's Viewpoints and Practice on Intelligent Ships Mr. Yongquan HUANG, Senior Consultant, China Merchants Energy Shipping Co., Ltd.
10:55-11:20	Topic: Marine Industry - Transition for the Future Prof. Keyi HU, Jiangnan Shipyard
11:20-11:45	Topic: Business Opportunities and Assurance Challenges Related to Novel Maritime Technology Dr. Pierre C. Sames, DNV-GL
11:45-12:10	Topic: Dealing with the Changes in the Maritime Industry Mr. Eero Lehtovaara, Senior Vice President, ABB Marine and Ports

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon

Session: Intelligent Ship Design & Marine Regulations

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Dr. Gang WANG

Mr. Spencer Schilling

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F180105-055 Topic: Ship Hull Design for Fuel Efficiency - A Description of Design Parameters Jóannes Gullaksen
14:00-14:25	C180103-098 Topic: Research on the Key Control Strategies of Shipboard AC Intelligent Power Distribution Equipment Jianfeng ZHANG, et al.
14:25-14:50	F180205-124 Topic: Artificial Intelligence in the Maritime Industry Erik Stensrud, et al.
14:50-15:10	Coffee Break
15:10-15:35	C180131-188 Topic: A Study on the Methodologies of Technical Justification for CSR GBS Compliances Ying HONG
15:35-16:00	F171201-033 Topic: Main Dimensions of LNG Carrier Entering in River Area in China Shuntaro Egawa, et al.
16:00-16:25	C180131-196 Topic: Sea-Going Ships Comply with IMO Goal Based Standards Qiuming LUO, et al.
16:25-16:50	F180131-161 Topic: The MBED (Maturity Based Evidence Dependent) Regulatory Framework for Highly Autonomous Systems Joseph Morelos
16:50-17:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon

Session: Hydrodynamics & CFD

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Kwang-Jun PAIK

Prof. Sheming FAN

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F171128-022 Topic: Investigation of Air Lubrication System (ALS) on Drag Reduction of Ship Sudhir Sindagi, et al.
14:00-14:25	F171126-020 Topic: Drag Reduction in Turbulent Flow through Spanwise Wall Oscillations Avijit Sharma, et al.
14:25-14:50	F180124-109 Topic: Analysis of Quadratic Roll Damping Based on Hilbert Transform Jaehoon LEE, et al.
14:50-15:10	Coffee Break
15:10-15:35	F180124-110 Topic: Application of CFD for Ship in Drift Condition Zhang ZHU, et al.
15:35-16:00	F180212-120 Topic: Feasibility Study on Numerical Predictions of Resistance and Self-Propulsion Performances for a Full Scale Ship Kwangsoo KIM, et al.
16:00-16:25	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon

Session: FPSO, FSRU, FLNG

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Xiaoping LI

Mr. Harry Ren

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F181101-281 Topic: Gas Solution at Remote Areas (High Light of FLNG and FSRU) Guangli YANG
14:00-14:25	C170701-002 Topic: Hull Strength Analysis for a 230000m ³ FLNG Yukui ZHANG, et al.
14:25-14:50	F180201-234 Topic: Global Performance of FSRU/FLNG in Shallow Water Sue WANG, et al.
14:50-15:10	Coffee Break
15:10-15:35	C180131-195 Topic: A Thermal Field Analysis Technology for Membrane Tank LNG Carrier Based on FEM Junsong HE
15:35-16:00	F171201-034 Topic: Minimizing Energy Consumption of LNG Carrier for Short Distance Trade Youhei Takimoto, et al.
16:00-16:25	C181112-284 Topic: Standardization of FPSO Design Qipeng ZHANG
16:25-16:50	F180801-256 Topic: OFFSHORE LNG: A Technical Safety Perspective Gärdin JOHAN
16:50-17:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon	
Session: Containership Safety	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Prof. Jiameng WU Prof. Geng XIE	
13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180227-239 Topic: Analysis of Large-Scale Container Ship's Mooring Load Based on Time Domain Method Chen CHEN, et al.
14:00-14:25	C180131-191 Topic: New Balance of Safety and Efficiency for Container Securing of Large Container Ship Yong XU, et al.
14:25-14:50	C180227-252 Topic: A Research on Lashing Patterns for Ultra Large Container Vessels Haiying ZHANG, et al.
14:50-15:10	Coffee Break
15:10-15:35	F180201-212 Topic: Container Stack Nonlinear Analysis Procedure and Impacts of Corner Separations Geng XIE, et al.
15:35-16:00	C180131-198 Topic: Ultimate Strength Assessment of Large Containerships Considering the Whipping Effects Hui WANG, et al.
16:00-16:25	C181030-280 Topic: Overview and Design Study of Lashing System for Ultra-Large Container Ships Jianwei XIAO, et al.
16:25-16:50	F181120-292 Topic: Containership Safety: Hydroelasticity and Lashing Maximilien Basquin
16:50-17:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon

Session: Ballast Water Treatment/Inspection & Maintenance

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Martin Toyen

Dr. Ji ZENG

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F181003-288 Topic: Retrofit Experiences Birgir Nilsen
14:00-14:25	F181101-283 Topic: How Treatment Technology Affects Compliance, Peace of Mind and Operating Expenditures Marcus Sannholm
14:25-14:50	F180131-166 Topic: Evaluation of BWMS for Cost-Effective Compliance Evon LI, et al.
14:50-15:10	Coffee Break
15:10-15:35	C181101-282 Topic: Research and Development of Ballast Water Treatment System and Case Analysis on Retrofitting Vessels Zhaohui ZHANG
15:35-16:00	F180810-258 Topic: Unique BWTS Retrofit: A Steering Gear Room Installation Pete Thompson
16:00-16:25	F180202-231 Topic: Time-Series Data Analysis by Pattern Recognition and Classification for Fault Diagnosis of Plant Equipment Seyun HWANG, et al.
16:25-16:50	F180131-182 Topic: A Roadmap to an Advanced Suite for Ship Inspection Integrating Innovative Robotics and Software Technology Enrico Carrara
16:50-17:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

5 December 2018 Wednesday Afternoon

Session: Intelligent Shipbuilding

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Keyi HU

Mr. Jong-Hun WOO

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180131-173 Topic: Research and Application of Hull Surface Plate Measurement Technology for Intelligent Manufacturing Yanjun MA, et al.
14:00-14:25	F180124-114 Topic: Research on the CPS for the Implementation of Smart Shipyard Jonghun WOO, et al.
14:25-14:50	C180108-101 Topic: Research and Application Trend of Laser Technology in Ships and Marine Engineering Hua HAN, et al.
14:50-15:10	Coffee Break
15:10-15:35	C180131-192 Topic: TOFD/PAUT Nondestructive Testing Technology and Its Application on Thick Plate Ming HEI, et al.
15:35-16:00	F180124-115 Topic: Development of Shipbuilding Management System: Integrated Production Planning and Simulation-Based Management Jonghun WOO, et al.
16:00-16:25	C171229-089 Topic: Research on Intelligent Production and Centralized Control System of Ship Coating Equipment Haoran QIN, et al.
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning	
Session: New Concept Ship Design	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Mr. Martin Toyen Prof. Jiameng WU	
9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F171214-052 Topic: Preliminary Feasibility Study of an Innovative Surface and Undersea Vehicle Yipeng PAN, et al.
9:30-9:55	C180105-100 Topic: The Challenge for Twin-Shaft Slant Design Applied to LNG Carrier Bin DUAN, et al.
9:55-10:20	C180110-105 Topic: A New Concept Design of VLFS with Hydraulic Out-Shell of Floater Chengjun LI, et al.
10:20-10:35	Coffee Break
10:35-11:00	F180612-259 Topic: CEDI Sustainability-Ranking in Fishing Vessel Design Process F. A. Veenstra, et al.
11:00-11:25	C180227-240 Topic: The Application of LNG READY in Design of ULCS Shaowei CHU, et al.
11:25-11:50	F171030-011 Topic: Human Factor in Shipping N.M.C NAIR
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning	
Session: Hydrodynamics & CFD	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Dr. Guojian CHEN Prof. Yuling GAO	
9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F180124-113 Topic: Hull Form Variation for Next-Generation Fishing Vessels Jinwon YU, et al.
9:30-9:55	F171201-043 Topic: A Computational Study of High-Speed Planing Hull Performance by a RANS Based CFD Tool Chengjie WANG, et al.
9:55-10:20	F180128-139 Topic: New Results in the Theory of Underwater and Wave Gliders Kirill Rozhdestvensky
10:20-10:35	Coffee Break
10:35-11:00	C180503-253 Topic: Numerical Study of a Pre-Duct on a Bulk Carrier Yunlong DU, et al.
11:00-11:25	F180124-111 Topic: CFD Analysis of Rudder Bulb Performance in Ship Manoeuvring Keun-Woo SHIN, et al.
11:25-11:50	C171124-067 Topic: Research on the Optimization of VLGC Shoulder Profile and Model Test Validation Yongxu JIANG, et al.
11:50-12:15	C181120-290 Topic: Progress and Application of China Numerical Tank Technology Wenyang DUAN
12:15-12:40	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning

Session: Arctic Technology

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. James Bond

Mr. Chenkang ZHONG

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F180112-104 Topic: Problems of the Oil Spill Combating in the Arctic Seas Vadim K. Goncharov
9:30-9:55	C180130-133 Topic: Hull Line Development of a High Ice Class Bulk Carrier Chenliang LU, et al.
9:55-10:20	C180131-194 Topic: Study and Practice on Methods of “Polar Water Operation Manual” Chenkang ZHONG, et al.
10:20-10:35	Coffee Break
10:35-11:00	C180227-244 Topic: Developing Status and Trend of Arctic Ships and Offshore Units Yuan LI
11:00-11:25	F180130-159 Topic: Hybrid Laser-Arc Welding High-Strength, Cold Resistance and Nanostructured Steels Gleb A. Turichin, et al.
11:25-11:50	F180202-227 Topic: Development of Arctic Technologies at Krylov State Research Centre V.O. Borusevich, et al.
11:50-12:15	F181107-287 Topic: Direct Laser Deposition of High-Strength Cold-Resistant Steel Rudolf S. Korsmik, et.al.
12:15-12:40	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning

Session: Fatigue

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Wenyong TANG

Prof. Deqing YANG

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F180130-158 Topic: Fatigue Crack Propagation under Intermittent Superimposed Stress Histories Yoshifumi Takaki, et al.
9:30-9:55	C180131-199 Topic: Application of Spectral Analysis for Fatigue Assessment of Ultra Large Container Ships Min XU
9:55-10:20	F180130-160 Topic: Numerical Simulation of Fatigue Surface Crack Propagation under Biaxial Tensile Loadings with Phase Differences Mizuki Morishita, et al.
10:20-10:35	Coffee Break
10:35-11:00	C171128-073 Topic: Fatigue Strength Design Evaluation of the Main Bearing Block Weld Seam of Two-Stroke Low Speed Diesel Engine Kui WANG, et al.
11:00-11:25	F171126-013 Topic: Fatigue Life Prediction Method of Single Point Mooring (SPM)'s Mooring Hawser, Case Study: Tuban Fuel Terminal's SPM Ferdinand Raditya Effendy, et al.
11:25-11:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning	
Session: EEDI, Emission & Fuels	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Mr. Jóannes Gullaksen Prof. He LIN	
9:00-9:05	Introduction by Session Chairmen
9:05-9:30	C180131-193 Topic: Analysis on the EEDI Requirements for large Bulk Carriers and Tankers Lu LI, et al.
9:30-9:55	F180105-056 Topic: Hull Roughness Effects on Lifetime Fuel Consumption and Voyages John C. Daidola, et al.
9:55-10:20	C180131-203 Topic: The Feasibility Study of LNG as a Marine Fuel Xihua FU
10:20-10:35	Coffee Break
10:35-11:00	C180131-135 Topic: Analysis of EEDI Rules and Solutions Bin GAO, et al.
11:00-11:25	F180131-156 Topic: Feasibility Study on the Use of LNG as a Fuel for a 20000TEU Ultra-Large Container Vessel Ainian ZHANG, et al.
11:25-11:50	C180131-170 Topic: Research of Dual-Loop Control Method for HP Pump in HP LNG Gas Supply System for Dual Fuel Main Engine Huiyan TANG, et al.
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Morning

Session: Big Data & Cyber Security

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Mikkel Hansen

Prof. Xiaochuan TONG

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F171201-031 Topic: Intelligent and Environmental Ships Are Electric, Digital and Connected Alf Kåre Ådnanes, et al.
9:30-9:55	C180917-260 Topic: Research on Distributed Data Network of Intelligent Ship Jinhui LU, et al.
9:55-10:20	F1811120-293 Topic: How to Improve Offshore Units Operations through Asset Integrity Management? Arnaud GERTHOFFERT
10:20-10:35	Coffee Break
10:35-11:00	C181016-270 Topic: Design and Implementation of Ship Data Fusion Layer Lu CAI, et al.
11:00-11:25	F180131-164 Topic: Cyber Security in Marine Industry Elisa Cassi
11:25-11:50	C181018-279 Topic: Research on Shore Based Ship Data Monitoring Platform Jian GUO, et al.
11:50-12:15	F180131-162 Topic: Applications of Distributed Ledger and Blockchain Technologies in Maritime Gary R. Pogson, et al.
12:15-12:40	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Afternoon

Session: New Concept Ship Design & Specific System

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Martin Toyen
Prof. Jiameng WU

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180131-186 Topic: New Concept of Anti-Sediment Designs for VLCC Li LIN, et al.
14:00-14:25	C180110-102 Topic: Innovation and Development of LNG Power Supply Vessel Bin DUAN, et al.
14:25-14:50	C180209-233 Topic: A Rational Approach to Simulate Hull Girder Still Water Shear Force for Container Ships Jiameng WU, et al.
14:50-15:10	Coffee Break
15:10-15:35	C180227-242 Topic: Analysis on the Dynamic Positioning Ability of a DP3 Deep-Water Drillship Jinhui HE, et al.
15:35-16:00	F171116-016 Topic: MissionEase Boat Handling System for Multi-Role Ships and Expedition Vessels Rolf Andreas Wigand, et al.
16:00-16:25	C180227-249 Topic: Preliminary Study on the Scientific Winch System Configuration of Multipurpose Research Vessels Qingzhi TANG, et al.
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Afternoon	
Session: Hydrodynamics & CFD	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Dr. Guojian CHEN Prof. Yuling GAO	
13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F180128-140 Topic: To the Problem of Dynamics of a Cavitation Bubble Near the Rounded Leading Edge of a Hydrofoil Kirill Rozhdestvensky
14:00-14:25	C181018-272 Topic: Numerical Simulation of Unsteady Cavitation on the Propeller and Rudder behind the Hull Wei ZHANG, et al.
14:25-14:50	C181018-273 Topic: Numerical Study of Cavitation Shedding around NACA66 Hydrofoil Based on OpenFOAM Yong LI, et al.
14:50-15:10	Coffee Break
15:10-15:35	C181018-274 Topic: Prediction of Hydrodynamic Derivatives of Ship Manoeuvring by Virtual CMT Yi LIU, et al.
15:35-16:00	C181018-275 Topic: Numerical and Experimental PMM Tests of ONR Hull Chenliang ZHANG, et al.
16:00-16:25	F180212-236 Topic: Numerical Study on the Self-Propulsion Performance of KVLCC2 Model Ship in Regular Head Waves Hyun-Woo SHIN, et al.
16:25-16:50	C181120-291 Topic: Numerical Tank Study on the Stern of a Ship in Shallow Water Hongjian CAO
16:50-17:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Afternoon

Session: Vibration & Noise

Venue: 10th Floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Wenyong TANG

Prof. Deqing YANG

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C171106-012 Topic: Study of Vibration Control Design Technology for Large-Scale Cutter Suction Dredgers Xuerong SUN, et al.
14:00-14:25	C171202-077 Topic: Low Noise Design Technology and Development Trend of Marine Diesel Engine Zhigang WANG, et al.
14:25-14:50	C171229-092 Topic: Modal Analysis and Optimization of the Lashing Bridge for 21000TEU Container Ship Bo YUAN, et al.
14:50-15:10	Coffee Break
15:10-15:35	C171229-093 Topic: Vibration Research and Optimization of Liquid Compressor for Ships Jiaping WAN, et al.
15:35-16:00	C180103-097 Topic: Research on Non-Synchronization Vibration Beating Phenomenon of Large LNG Carrier with Two Propellers Jiaying WANG, et al.
16:00-16:25	C180227-247 Topic: Under Water Noise Control for Chinese Research Vessel "JIA GENG" Ningning QU
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Afternoon

Session: Marine Engineering

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Frank Mungo

Prof. Tao PING

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C171128-071 Topic: Numerical Simulation and Optimization of Marine Engine Room Thermal Environment Jun YANG, et al.
14:00-14:25	C171124-066 Topic: Modeling and Simulation of Single Phase Grounding Fault in MV Ship Grid Wei ZHUANG, et al.
14:25-14:50	C171116-060 Topic: Analysis of Damping Type Tail Bearing Based on the Finite Element Liang LIU, et al.
14:50-15:10	Coffee Break
15:10-15:35	C171129-076 Topic: Research on the Dynamic Positioning Capability of a Semi-Submersible Engineering Vessel Yuefeng WEI, et al.
15:35-16:00	C171229-088 Topic: Flow Field and Resistance Characteristics Analysis of Special Eccentric Butterfly Valve Based on CFX Yunhui YOU, et al.
16:00-16:25	C180124-126 Topic: Analysis and Outlooks of Marine Thermal Oil Heating System Yuling WU
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

6 December 2018 Thursday Afternoon

Session: Advanced Ship Technology

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. Henrik O. Madsen

Prof. Peng WANG

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F180130-142 Topic: Object Detection Algorithm for Unmanned Surface Vehicle Using Faster R-CNN Heesu Kim, et al.
14:00-14:25	C171128-069 Topic: Simulation Research of Rainfall Air Conditioning System in Wheelhouse onboard Ship Xuanyu CHANG
14:25-14:50	F180131-179 Topic: Development Fuzzy Inference Track Keeping Algorithm Using Realistic Operational Scenarios Bora Choe, et al.
14:50-15:10	Coffee Break
15:10-15:35	C171113-059 Topic: A Procedure to Design Ship Anchor System Based on 3D Printing Ding ZHANG, et al.
15:35-16:00	F180129-125 Topic: Man Overboard Detection System Using RFID Prabhjit Virmani, et al.
16:00-16:25	C171130-080 Topic: Theoretical and Experimental Study on the Motion of Air Cushion Vehicle after Sideslip with High Speed Zongke ZHANG
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Morning	
Session: Ship Design Methods	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Mr. Spencer SCHILLING Prof. Weiqiang QIU	
9:00-9:05	Introduction by Session Chairmen
9:05-9:30	C171130-081 Topic: Parametric 3-D Modeling and Unwrapping of Skirt of Air Cushion Vehicle by Application Development in CATIA Zongke ZHANG, et al.
9:30-9:55	C180131-174 Topic: Shape Optimization of Ships' Local Structure with the Partition and Generalization Kriging Approximation Model Ganfeng ZHANG, et al.
9:55-10:20	F171201-045 Topic: CAD Rule-Based Design as a Methodology to Help Ship Designers Guangwu LIU, et al.
10:20-10:35	Coffee Break
10:35-11:00	C180124-210 Topic: A Solution of 3D Design Delivery for Piping Spool Fabrication Based on CATIA Composer Application Ji LI, et al.
11:00-11:25	C180128-129 Topic: A Research on Optimization of Exhaust System of Marine Diesel Engine Based on FLOWMASTER Xiaodong WEI
11:25-11:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Morning	
Session: Hydrodynamics & CFD	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Prof. Renchuan ZHU Prof. Francis Noblesse	
9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F181018-276 Topic: Simulations of Moored Wave Energy Converters Using OpenFOAM: Implementation and Applications Claes Eskilsson, et al.
9:30-9:55	F180212-237 Topic: Numerical Study on the Interaction between the Internal and Surface Waves by a Sphere Moving in a Two-Layer Stratified Fluid Kwan-Woo KIM, et al.
9:55-10:20	C171127-068 Topic: An Experimental Study on Large Amplitude Rolling of a Vessel in Regular and Group Head Waves Zhen LIU, et al.
10:20-10:35	Coffee Break
10:35-11:00	F180201-223 Topic: Physical Mechanisms and Characteristics of a Stern Slamming Using Particle Based Method Taiga Kanehira, et al.
11:00-11:25	F180201-222 Topic: A Time-Domain Green-Function Method for Ship Hydroelastic Problem with Forward Speed Takuya Taniguchi, et al.
11:25-11:50	C181018-277 Topic: Numerical Study of the Green Water Slamming Force on the Elastic Structure Based on MPS-FEM Coupled Method Yanzhang XU, et al.
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Morning

Session: Underwater/Deep Sea/Subsea Technology

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Kirill V. ROZHDESTVENSKY

Prof. Shixiao FU

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	C181018-278 Topic: An Improved Spectral Fatigue Analysis Approach Applied for the Jacket Platform Design in East China Sea Qin FENG
9:30-9:55	F180212-123 Topic: A Study on Acoustic Radiation Efficiency of Simply Supported One Side-Wetted Rectangular Plate Based on Mindlin Plate Theory Jongho LEE, et al.
9:55-10:20	C171229-090 Topic: Design and Development of Track-Keeping Device for Underwater Production Equipment of Semi-Submersible Platform Ruijia ZHOU, et al.
10:20-10:35	Coffee Break
10:35-11:00	C181123-294 Topic: Key Technologies of Manned Cabin Used in Deep-Sea Manned Submersibles Fang WANG, et al.
11:00-11:25	F180130-153 Topic: A Comparative Study on Application of Deep-Sea Mooring Line (Polyester-Steel Wire Rope) for Offshore Plant Chun-Sik Shim, et al.
11:25-11:50	C171128-072 Topic: Development of a Numerical Model for Analysis of Unbounded Flexible Riser under Torsion and Tensile Yadong ZUO
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Morning

Session: Green Technology

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Guoping MIAO

Prof. Fei E

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	C180130-132 Topic: Design of HVSC System and Its Application on Container Vessel <i>CSCL Uranus</i> Ning LU, et al.
9:30-9:55	F171126-021 Topic: Seawater for Propeller Shaft Lubrication in Merchant Ships - Environmental, Operational, Legal and Shipbuilding Considerations Craig D. Carter
9:55-10:20	C180131-171 Topic: A Research on Diesel Generator Variable Speed Control Strategy of Marine DC Grids Zhaoyu YANG, et al.
10:20-10:35	Coffee Break
10:35-11:00	F171201-041 Topic: Fuel and Emission Reduction in Shipping Industry Based on Low Carbon Economy by the Use of Flexible Solar Panels and Rotor Sails Avishek Ankit, et al.
11:00-11:25	C180227-251 Topic: Design and Optimization of a Cold Energy Recover System for LNG-Fuelled Ship Tao WANG
11:25-11:50	F171115-015 Topic: A Method for Wave Energy Converter System Performance Assessment Jóannes Gullaksen
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Morning

Session: Intelligent & Autonomous Ship

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Mr. John Hatley
Dr. Bing HAN

9:00-9:05	Introduction by Session Chairmen
9:05-9:30	F181101-285 Topic: Cybersecurity Challenges for Intelligent Shipping: Where is the Maritime Industry Headed? Michael D. Taylor
9:30-9:55	C171124-065 Topic: A Research on Intelligent Ship Video Awareness System Hang ZHOU, et al.
9:55-10:20	C171128-074 Topic: A Research on Development and Demonstration Project of Intelligent Ship in China Bing HAN, et al.
10:20-10:35	Coffee Break
10:35-11:00	F180712-255 Topic: A Millennia Step Forward: The Smart Marine Ecosystem John Hatley PE
11:00-11:25	C171229-087 Topic: Intelligent Management System for Ship Operation and Maintenance Songyan MAI, et al.
11:25-11:50	C180131-201 Topic: Functional and Design Requirements for Autonomous Ship Situation Awareness Ci HE
11:50-12:15	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Afternoon

Session: Hydrodynamics & CFD

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Renchuan ZHU

Prof. Francis Noblesse

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	F180105-057 Topic: Development of Blade-Rotating Body Force Propeller Model in RANS Code for Open Water and Behind-Hull Condition Hikaru Hasegawa, et al.
14:00-14:25	C171130-058 Topic: Numerical Prediction of Hydrodynamic Performance of Contra-Rotating Rudder Propeller Based on IDDES Zhiyong WANG, et al.
14:25-14:50	C180227-243 Topic: A Head Correction Method in Model Experiment of Water-Jet Propulsion Axial-Flow Pump with Front Guide Vane Guorui JI, et al.
14:50-15:10	Coffee Break
15:10-15:35	F180201-213 Topic: Towing Tank Model Tests on Water-Jet Propulsive Performance Hoeseong Jeong, et al.
15:35-16:00	F180124-119 Topic: Study on the Hydrodynamic Force Acting on Hull and Rudder of A Drifting and Turning Ship in Shallow Water Tien Thua Nguyen, et al.
16:00-16:25	F181016-271 Topic: Estimation of Absorption Performance of Perforated Panel in Flow Environment Seung-Jin JEONG, et al.
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Afternoon	
Session: Collision & Grounding	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Prof. Kun LIU Dr. Jingxi LIU	
13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C181010-263 Topic: The Large Deflection Dynamic Plastic Response Analysis of Stiffened Square Plates Subjected to Blast Load Xiao SONG, et al.
14:00-14:25	C181010-265 Topic: Experimental and Numerical Analysis of a Laterally Impacted Square Steel Plate Kun LIU, et al.
14:25-14:50	C181010-266 Topic: Optimized Design of Crashworthiness of FPSO Side Structure Based on Improved BP-GA Algorithm Mingxing GAO, et al.
14:50-15:10	Coffee Break
15:10-15:35	C181010-267 Topic: A New Method in Evaluating the Rupture of Materials in Ship Collision and Grounding Simulations Zeping WANG, et al.
15:35-16:00	C181010-264 Topic: Study on Dynamic Response of Ship Structures during Ship-Ice Collision Tongqiang YU, et al.
16:00-16:25	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Afternoon	
Session: Risk, Safety & Reliability	
Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China	
Session Chair: Prof. Deyu WANG Dr. Jiaying WANG	
13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180102-096 Topic: Analysis of Fuel Gas Pipe Leakage of Dual-Fuel Low Speed Engine in Large LNG Carrier Engine Room Tao LIU, et al.
14:00-14:25	F171219-054 Topic: Structural Design for Higher Design Vapor Pressure of SPB [®] Tank for LNG Bunkering Vessel Takahiko Ohmori, et al.
14:25-14:50	C180131-189 Topic: Dynamic Response of Corrugated-Core Sandwich Plates Subject to Impact Patch Load Yamin TANG, et al.
14:50-15:10	Coffee Break
15:10-15:35	C180206-232 Topic: A Research on Moments Caused by Longitudinal Forces in CSR Tao HAN, et al.
15:35-16:00	C171231-094 Topic: Analysis of the Correlation between Accidents and Anti-Sink Property of Passenger (or Ro-Ro) Ship Ping LU, et al.
16:00-16:25	C180131-190 Topic: Research of Safety Technology Standard for Regional Tourism Ships Bichun XIE, et al.
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Afternoon

Session: Green Technology/Coating & Corrosion

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Dr. Inwon LEE

Prof. Li ZHANG

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180920-261 Topic: Application of AMP System on a 400000t Ore Carrier Kechen YUAN, et al.
14:00-14:25	C171122-063 Topic: Development and Application of Marine Diesel-Electric Propulsion System in China and Design of the First Domestic Hybrid Tugboat Propulsion System Kun TAN, et al.
14:25-14:50	F171130-027 Topic: Structural Design of Advanced Spar Type Structure in Fukushima FORWARD Ryo Matsuoka, et al.
14:50-15:10	Coffee Break
15:10-15:35	F180201-224 Topic: Dynamic Response Analysis of a Floating Offshore Wind Turbine Taiki Horiuchi, et al.
15:35-16:00	F180124-112 Topic: In-Service Performance Estimation of Low Frictional AF Coating Inwon LEE, et al.
16:00-16:25	F180130-152 Topic: Paint Systems of Increased Reliability V. I. Trusov, et al.
16:25-16:50	Discussion

Conference Programme

Innovation, Intelligence, Transformation, Development

7 December 2018 Friday Afternoon

Session: Monitoring & Measurement

Venue: 10th floor, Renaissance Shanghai Zhongshan Park Hotel, Shanghai, China

Session Chair:

Prof. Christopher Hodge

Dr. Xiaoyan XU

13:30-13:35	Introduction by Session Chairmen
13:35-14:00	C180131-169 Topic: Health Prediction of Lithium-Ion Batteries Using Novel Indicator and Optimized Gaussian Process Regression Jian LIU, et al.
14:00-14:25	F180202-230 Topic: Thermal Strain Based Accurate Prediction of Thermal Deformation Generated by Flame Bending and Line Heating Jang-Hyun LEE, et al.
14:25-14:50	C171130-025 Topic: A Research on Configuration Management for Application Software of Monitoring and Control System Yu XI
14:50-15:10	Coffee Break
15:10-15:35	C180212-238 Topic: Compensation and Digital Simulation for Measurement of Wind Speed and Direction with Ships Motion Wanqiang TU, et al.
15:35-16:00	F180212-122 Topic: Onboard Measurement and Analysis for Powering Performance of Ship in Operation Ho KIM, et al.
16:00-16:25	C180920-262 Topic: Research on the Extended Application of CCTV in Ship Design Xin YANG, et al.
16:25-16:50	Discussion