

DAY 1 - Tuesday 13 th September 2022			
08.30-09.25	REGISTRATION & COFFEE		
Session 1	Plenary - G401		
09.25-09.30	Welcome Address		
	Dr. Abe Akinori - National Maritime Research Institute		
	Mr. Akihiko Masutani - Sumitomo Heavy Industries Marine & Engineering Co., Ltd.		
	Dr. Noriyuki Sasaki, University of Strathclyde		
10.45-10.50	Siemens - Sponsor Presentation		
10.50-11.20	COFFEE		
	Track I	Track II	Track III
Session 2	...	...	...
11.20-11.55	Development of PLM system for precise production planning and production control in shipbuilding K Matsuo, National Maritime Research Institute	Semi-Automatic Distributed Ship Service Systems Routing Framework for Submarine Early-Stage Design M H Mukti, University College London	Cost Benefit Analysis to assess the effectiveness of measure against flooding of cruise ships and ROPAX ferries S Wurst, BALance Technology Consulting GmbH
11.55-12.30	Digital Platform Enabling Robotic Survey, Repair & Agile Manufacturing of Ships and Watercraft F Santo, Lancaster University	Automatic Data Extraction and Unfolding for Ship Hull Plates on CATIA Y Hu, Wuhan University of Technology	Development of a communication platform to support consensus-building among stakeholders in shipping decarbonization K Takahashi, Mitsubishi Research Institute, Inc.
12.30-12.35	Cadmatic - Sponsor Presentation		
12.35-13.50	LUNCH		
Session 3	...	...	...
13.50-14.25	Information management in shipbuilding projects - uninterrupted information flow from 3D design to production data L Seppälä, Cadmatic	TBC	Emergent Simulation Techniques in the Development of the Quiescent Period Prediction (QPP) Flight Deck Motion Forecasting Tool B Ferrier, Hoffman Engineering
14.25-15.00	Japanese Shipbuilding DX Acceleration Through the Application of Public Sector Transformation Strategies G Goulanian, SSI	TBC	Development of a low-cost real-time ocean wave observing system based on deep learning image algorithm J Choi, Daewoo Shipbuilding & Marine Engineering Co., LTD.
15.00-15.35	Smart Digital Shipyards with Model-Based Manufacturing O Chouche, Dassalt Systemes SE	An expanded application of Basic Ship-Planning Support System using Big Data in Maritime Logistics for Panamax and Capesize Dry Bulk Carriers D A F Muzhoffar, Hiroshima University	Obstacle Detection and Tracking of Unmanned Surface Vehicles Using Multi-view Images in Marine Environment J Park, Seoul National University
15.35-16.10	COFFEE		
Session 4	...		
16.10-16.45	Drawing design of hull block structure based on secondary development of AutoCAD Z Hu, Wuhan University of Technology	Application of mixed reality technology to ship manufacturing process Y Mimori, Mitsubishi Shipbuilding Co., Ltd.	Wind assisted propulsion: Investigations on the use of ship holistic models for performance analysis A Bellot, LMG MARIN France
16.45-17.20	The benefits of having a best-in-class shipbuilding tool R Perez Fernandez, Siemens Digital Industries Software	About Creating Open-source 3D Modular Viewer in Python G Sikic, LINA et al.	Study on Simulation Based Evaluation of Route and Cargo Specific Project for Introducing Decarbonized Ships S Wanaka, National Maritime Research Institute
17.20-19.00	EVENING DRINKS RECEPTION, SPONSORED BY SIEMENS		

Conference Programme

DAY 2 - Wednesday 14 th September 2022			
	Track 1	Track 2	Track 3
08.30-09.00	REGISTRATION		
Session 1	...	...	...
09.00-09.35	Development of a Pipe Fabrication Process Determination System Using Graph Database and Process Simulation Y Mihara, Yokohama National University	Digital Enterprise Platform - Enabling efficient CAD, PLM, ERP Integration on shipyards J Bitomsky, Prostep	TBC
09.35-10.10	Autonomous Mobile Robots introduction in shipyards' manufacturing process C Dentesano, Fincanteri	TBC	TBC
10.10-10.45	Automated Generation and Low Effort Authoring of Commissioning Content in the Maritime Industry A Elzalabany, Technical University of Hamburg	A New Approach for Using CAD and PLM Integration R Perez Fernandez, Siemens Digital Industries Software	TBC
10.45-10.50	Class NK - Sponsor Presentation		
10.50-11.20	COFFEE		
Session 2	...	...	...
11.20-11.55	From Point Cloud to CAD-model based on AI J Luetzenberger, Prostep	A route planning method for coastal navigation of small ships D Jeong, Seoul National University	Coupling a high fidelity near surface effects model into PARAMARINE S4 P Crossland and C Forrest, QinetiQ Ltd
11.55-12.30	Digital Twinning for Optimizing Operational Energy Efficiency of Harbour Craft G S Chopra, SeaTech Solutions International	Development of a Shipping Market Forecasting System Using Vessel Movement Data and its Practical Application Y Wada, National Maritime Research Institute, Japan	A Mobile Application to Assess the Stability of Small Fishing Boats A Grech La Rosa, University College London
12.30-13.50	LUNCH		
Session 3	...	...	...
13.50-14.25	Digital Transformation Through Data-Driven and Data-Centric Approaches with Artificial Intelligence J Khairuddin, Universiti Teknologi Malaysia	A Model-Based Decision Support Framework for Maritime Industry: Case Study of Alternative Fuels Deployment K Hiekata, The University of Tokyo	TBC
14.25-15.00	A Method of Variable Recognition and Connection for Reviewing Ship Regulations M Kong, Seoul National University	Dynamic modelling of ammonia crackers and hydrogen PEM fuel cells for shipping applications C McKinlay, University of Southampton	TBC
15.00-15.35	Making 3D Model-Based Approval a Reality T Masui, NAPA Japan	Voyage optimization with wind propulsion V Paakkari, Norsepower	TBC
15.35-15.40	Prostep - Sponsor Presentation		
15.40-16.10	COFFEE		
Session 4	...	...	...
16.10-16.45	Interface development between the 3D CAD software and the structural strength assessment software for efficient classification approval J Kim, Korean Register	IoS-OP: Initiatives for ship operation data collection, distribution, and utilization Y Ikeda, ShipDC	TBC
16.45-17.20	Streamlining the ship structural optimization process by using an early 3D product model T Masui, NAPA Japan	Zero Infrastructure Geolocation Of Nearby First Responders On Ro-Ro Vessels D Zeinalipour, University of Cyprus	TBC
17.20-17.25	END OF DAY 2		

Conference Programme

DAY 3 - Thursday 15 th September 2022			
	Track 1	Track 2	Track 3
08.30-09.00	REGISTRATION		
Session 1	...	...	...
09.00-09.35	ACV (Acoustic Control Vantage) R Taylor, IMI Truflo Marine Limited	A position estimation system for indoor workshops making use of maximum likelihood estimation in Weibull distribution model of wireless LAN H Kimura, Kyushu University	TBC
09.35-10.10	Automated IoT equipment Installation Design & Cable laying instructions for shipbuilding A Lalechos, LePlan	Development of simulation system based on heuristic algorithm for berth planning. H Kim, Samsung Heavy Industries Co. Ltd.	TBC
10.10-10.45	A social - network based visualisation platform for monitoring naval ships design G Anagnostopoulos, University of Strathclyde	Plan, Do, Check, Act: Enabling the Deming Cycle for Ship Production C Zerbst, Prostep	TBC
10.45-10.50	BETA CAE - Sponsor Presentation		
10.50-11.20	COFFEE		
Session 2	...	...	...
11.20-11.55	Accelerating simulation-driven hull form optimisation using shape-supervised dimension reduction S Khan, University of Strathclyde	About Using the Game Engines in Shipbuilding, Software Developer's Perspective G Sikic, LINA et al	Vehicle Hot Spot Detector and Dangerous Goods Detector to Fire Ignition Prevention in Ro-Ro Ships Á Marrero, CENIT Research Group of CIMNE
11.55-12.30	Development of CAD based stability calculation software for Pure-Loss of Stability and Parametric Rolling Failure Mode of 2nd Generation Intact Stability Criteria J Park, Korean Register	Virtual reality beyond design reviews in shipbuilding : the need for industry-tailored immersive data interaction. N Fourrier, Segula Technologies	Stowage Planning Tool Supporting Fire Risk Management: A New Way For Cargo Distribution F Roderro, CENIT Research Group of CIMNE
12.30-12.35	SSI - Sponsor Presentation		
12.35-13.50	LUNCH		
Session 3	...	...	...
13.50-14.25	AI/ML applications for ship design M Wheeler and J Hodges, Siemens Industry Software Computational Dynamics Limited	Sustainable Ship design with Modular Shipbuilding approach R Audoire, Dassault Systemes	A study of process simulation based on a multi-agent system for shipbuilding T Taniguchi, National Maritime Research Institute
14.25-15.00	TBC	Seamless Integration of Ship Stability Systems into a PLM Driven Digital Twin T-H Wölke, CLEVR GmbH	Simulation Method of Fleet Transition Based on Technology, Economics, and Regulation Scenario for Decarbonization of Shipping S Wanaka, National Maritime Research Institute
15.00-15.35	Interceptor Effects on a 3D Rectangular Plates in a Calm Water by Using Computational Fluid Dynamics A M F Putra, Osaka University	Dynamic optimization of port operations onboard a typical Ro-Ro vessel, aided by a smart decision support system C S Uppal, Cochin University of Technology	Performance optimisation of solid oxide fuel cells through wasted heat recovery systems for marine applications P Manias, University of Southampton
15.35-15.40	Sponsor Presentation		
15.35-17.20	COFFEE and CLOSE		