SEMI-AUTOMATED APPROACH FOR DETAILED LAYOUT GENERATION GENERATION DURING EARLY STAGE SURFACE WARSHIP DESIGN, *Joan le Poole, J J Hopman, A A Kana, Delft University of Technology, E A E Dechateau, B J van Oers, Defence Materiel Organisation, the Netherlands*

TRUSTED POINT-CLOUDS FOR SHIP RETROFIT, *Gauthier Stonestreet, AVEVA, UK*

ENERGY-EFFICIENT CROSS-LAYER OPTIMIZATION AND OFDMA RESOURCE ALLOCATION FRAMEWORK FOR 5G SYSTEMS, *Ali M Mansoor Alsahag, University of Malaya, Malasia*

VIBRATIONAL ANALYSIS OF CUTTER SUCTION DREDGER, *Kiran Vijayan, C R Barik, IIT Kharagpur, India*

SHIP DATA DRIVEN PROPULSION MODELS AND ENERGY SAVING TECHNOLOGY ASSESSMENT, *John Buckingham, David Pearson, Elspeth Storey, BMT, UK*

SMART OPTIMIZATION OF A SELF-PROPELLED PASSENGER FERRY BASED ON ADAPTIVE GRID REFINEMENT AND DESIGN SPACE ANALYSIS, *Benoit Mallol, Kevin Vidal, Charles Hirsch, NUMECA, Belgium*

OFFSHORE SUBSTAIONS, *Christian Barlach, A Thomsen, ISC, Denmark*

This is a preliminary programme, stating only the papers that have been accepted by the Committee. The complete selection of abstracts, and a full programme detailing the three concurrent streams, will be available on the event's website: www.rina.org.uk/ICCAS-2019

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ICCAS 2019

24-26 September 2019
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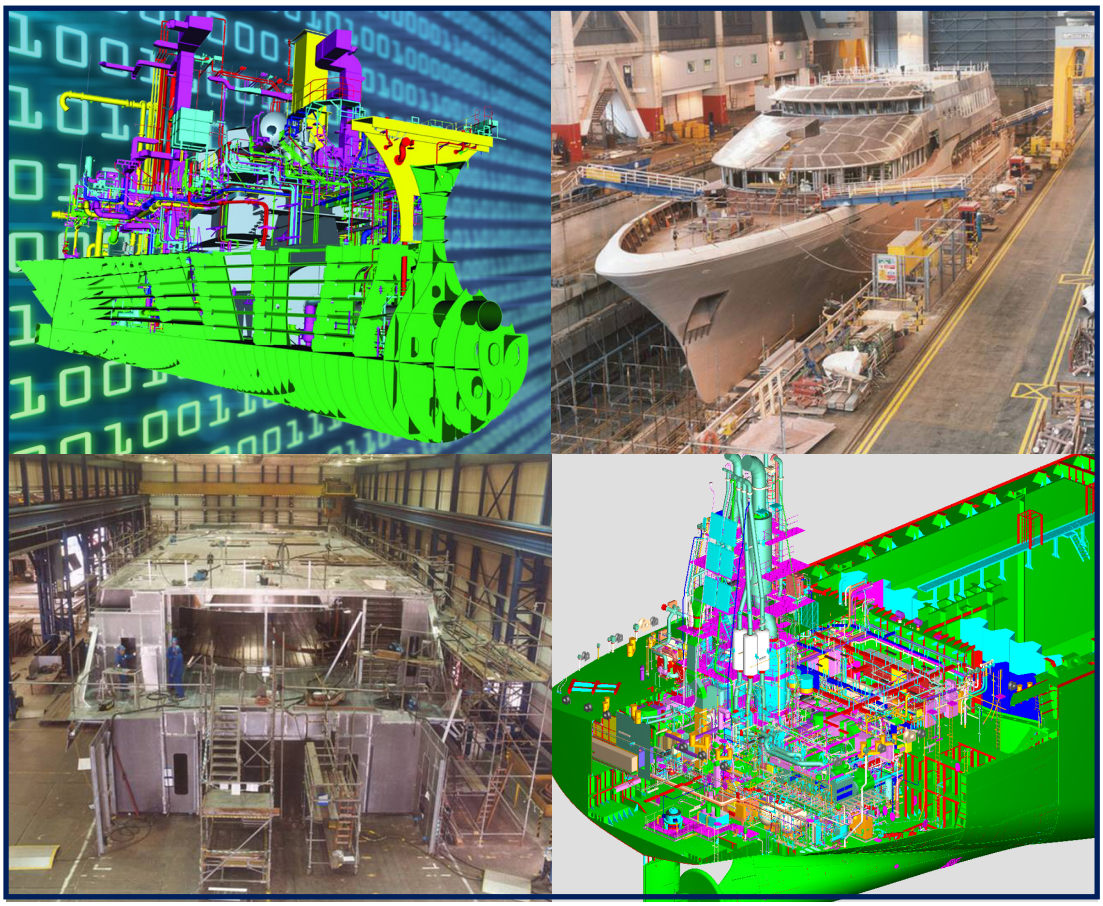

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Deadline for submission of papers (Authors)	**31st July 2019**
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Conference	**24 - 26 September 2019**

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The conference will include an optional visit to DAMEN shipyard to be confirmed the day. Places are limited and will be allocated on a first come, first served basis.

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Rotterdam is the second-largest city and a municipality of the Netherlands. It is located in the province of South Holland, at the mouth of the Nieuwe Maas channel leading into the Rhine-Meuse-Scheldt delta at the North Sea. Its history goes back to 1270, when a dam was constructed in the Rotte, after which people settled around it for safety. In 1340, Rotterdam was granted city rights by the Count of Holland. A major logistic and economic centre, Rotterdam is Europe's largest port.

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MACHINE LEARNING APPLICATIONS IN THE SMART MONITORING SYSTEM FOR SHIPBUILDING, *Kazuhiro Aoyama, Ryota Takenaka, Masayuki Irie and Kazuya Oizumi, The University of Tokyo, Japan*

LIDAR TECHNOLOGY DEVELOPMENT APPLIED TO SHIP MOTION PREDICTION (QPP) AND AIR WAKE OVER-DECK DEFINITIONS USING SIMULATION AND AT SEA ANALYSIS, *Bernard Ferrier, Hoffman Engineering, USA*

GLIMPSE TO THE FUTURE, TECHNOLOGICAL TRENDS IN THE SHIPBUILDING CAD WORLD, *Rodrigo Perez, Erno Peter, SENER, Spain*

ARE WE USING THE ENGINEERING DATA EFFICIENTLY THROUGH THE REST OF THE PROCESS?, *Marcel Veldhuizen, Hexagon PPM, the Netherlands*

MODEL BASED APPROVAL - THE OPEN CLASS 3D EXCHANGE (OCX) STANDARD, *Ole Christian Astrup, DNV GL, Norway*

GLOBAL DIGITAL HULL, *Remi Lanet, Thierry Le Gal, Lionel Le Guennic, Naval Group, France*

ENABLING BEST TOOL IN CLASS IN SHIPBUILDING, *Carsten Zerbst, PROSTEP AG, Germany*

COMBINE AND CONQUER - HOW ADVANCED IT TECHNOLOGIES COME TOGETHER FOR SHIPYARDS, *Denis Morales, Jagan Seshadri, SSI, Canada*

PLATFORM-BASED MODULAR SHIP FAMILY DESIGN AND PRODUCTION IN THE CONTEXT OF NAVAIS EU PROJECT, *Richard Audoire, Emilie Lenglet, Dassault Systèmes, France*

ESCAPE AND EVACUATION (E&E) DURING SHIP CONSTRUCTION - AN ALTERNATIVE USE OF E&E SOFTWARE, *Mark Way, Nick Brophy, Babcock International Group, UK*

APPLICATIONS & ADVANTAGES OF EMPLOYING DIGITAL SHIP DESIGN TOOLS FOR NEWBUILDING, RETROFIT AND CONVERSION PROJECTS, *Aleksander Borczyk, Mahesh Pratap Singh, NED-Project, Poland*

INTRODUCTION OF BUCKLING ASSESSMENT SOFTWARE FOR CSR REQUIREMENT, *Jong-oh Kim, Ho-gyun Park, Korean Register, South Korea*

SMARTSHIP - INCREASED PERFORMANCE OF SHIP OPERATIONS WITH NEW DIGITAL SOLUTIONS, *Gauthier Stonestreet, Antonio Retamero, AVEVA, UK*

EXTRACTION OF WELD LENGTH INFORMATION IN SHIPYARD PRODUCTION USING COMPUTER ENGINEERING AND MATHEMATICAL TOOLS FOR ENHANCED PRODUCTIVITY, *Januwar Hadi, Singapore Institute of Technology, Singapore*

VIRTUAL REALITY IN SHIP BUILDING: THREE USE CASES IN A CRUISE SHIP DESIGN PROCESS, *Marko Keber, Fincantieri Oil & Gas, S.p.A., Matteo Schiavon, Andrea Cossutta, Luca Ambrosio, Fincantieri S.p.A, Trieste, Marco Jez, Arsenal S.r.l., Italy*

GOODBYE PAPER - CAN VR/AR REPLACE PAPER FOR SHIPYARD PRODUCTION?, *Winston Pynn, The Marine Institute of Memorial University, Canada*

MULTI-OBJECTIVE OPTIMIZATION OF A SUSTAINABLE ENERGY SYSTEM FOR SMART-GRID CENTRED SHIP DESIGN PROJECT, *Sergio Ribeiro e Silva, Susana Vieira, University of Lisbon, R F P Baptista, European Maritime Transport Agency, Protugal*

THE VISUAL DIGITAL TWIN FOR SHIPBUILDING DESIGN, MANUFACTURER, AND IN-SERVICE OPERATION, *Gavin England, VIRTALIS, UK*

APPLYING MODEL-BASED SYSTEMS ENGINEERING TO MARINE & OFFSHORE INDUSTRY, *Thibaud Colas, Gauthier Faunmy, Dassault Systèmes, France*

DEVELOPMENT OF A DATA-DRIVEN PAINT MANAGEMENT APPLICATION, *Egemen Celik, DAMEN, the Netherlands*

THE IMPACT OF EMISSION TAX SCENARIOS ON THE ECONOMIC VIABILITY OF ADVANCED SHIP DESIGNS, *Stephan Wurst, Christian Norden, Balance Technology Consulting GmbH, Germany, Bernardete Castro, Benny Mestemaker, Royal IHC, the Netherlands*

ENABLING THE DIGITAL THREAD FOR SHIPPING AND SHIPBUILDING, *Lars Wagner, PROSTEP AG, Germany*

NUMERICAL SIMULATION OF HYDRODYNAMIC IMPACT ON AN OFFSHORE WIND TURBINE STRUCTURE, *Erekle Tsakadze, Christian Barlach, ISC, E Smith, PLM Technology, Denmark*

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A COMPLETE TESTING SOLUTION FOR DP POWER SYSTEMS, INCLUDING VOLTAGE DIP RIDE THROUGH , *Mark Craig, Dairon Campos, OneStep Power Solutions, USA*

RESEARCH ON THE DPSO BASED METHOD FOR SUB-ASSEMBLY IDENTIFICATION IN SHIP BLOCK BUILDING**,** *Bo Liu, Rui Lui, Dalian University of Technology, China*

AN APPROACH TO BETTER SYNTHESISING THE DESIGN OF DISTRIBUTED SHIP SERVICES IN EARLY STAGE DESIGN OF COMPLEX VESSELS, *Muhammad Hary Mukti, Rachel Pawling, Cat Savage, David Andrews, University College London, UK*

HARNESSING PUBLICLY AVAILABLE INFORMATION WITH DATA SCIENCE TO EXTRACT THE OPEATIONAL PROFILE OF A VESSEL, *Rolf Bakker, Benny Mestemaker, Royal IHC, the Netherlands*

A SUGGESTION OF DIGITAL TRANSFORMATION PLATFORM FOR SHIP BUILDING INDUSTRY, *Jin-Hyung Park, Samsung Heavy Industries, South Korea*

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CFD ANALYSIS OF A FLOATING OSCILLATING WATER COLUMN WAVE ENERGY DEVICE, *Piyush Mohapatra, Indian Institute of Technology Kharagpur, India*

IMPLEMENTING VIRTUAL REALITY TOOLS FOR SHIP DESIGN AND BUILD, *Ken Goh, Knud E Hansen Australia, Australia*

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ASNET - A SIMMULATION FRAMEWORK TO SUPPORT THE EARLY STAGE DESIGN OF NAVAL SHIPS, *Francesco Perra, CETENA, Massimo Paolucci, University of Genoa, Italy*

LARGE CRUISE SHIP PRODUCTION MODELLING IN A COLLABORATIVE DESIGN ENVIRONMENT, *Damir Kolich, Lovro Kvadranti, University of Rijeka, Croatia, Richard Lee Storch, University of Washington, USA*

STUDY ON HULL LINE FAIRING BASED ON CATIA, *Hu Yong, Liu Yongjie, Chong Wang, Chaoyan, Wuhan University of Technology, China*

DEVELOPMENT OF PRODUCT MODEL DATA EXCHANGE BETWEEN DIFFERENT 3D CAD SYSTEMS FOR HULL DESIGNING, *Tokimasa Hiraki, Mitsubishi Shipbuilding Co., Ltd, Japan*

INTEGRATING VIRTUAL REALITY SOFTWARE INTO THE EARLY STAGES OF SHIP DESIGN, *Christopher-John Cassar, Giles Thomas, Nick Bradbeer, University College London, UK*

THE COMBINED USE OF DOPPLER LIDAR AND COMPUTATIONAL FLUID MECHANICS IN MARITIME AIR-WAKE STUDIES, *Chris Ward, J Horton, Frazer Nash Partners, Michael Belmont, J Christmas, University of Exeter, J Duncan, J M Duncan, MoD, UK, B Ferrier, Hoffman Engineering, USA*

AGNOSTIC G1 HULL FORM GENERATION FROM CURVE NETWORK FOR 3D SHIP CAD, *Wangseok Jang, Seoul National University, South Korea*

ACHIEVING THE DIGITAL SHIP: FROM DESIGN TO OPERATION, *Jesus Angel Munoz, Alicia Ramirez, SENER, Spain*

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A DEVELOPMENT OF WEB APPLICATION FOR VIEWING SPEEDS FORMAT USING X3D, *Koya Murata, Hajime Kimura, Kyushu University, Japan*

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COLLABORATION IN VIRTUAL REALITY: DESIGNING BETTER SHIPS, *Robert Spencer, Stirling Labs, Australia*

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