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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Wind Propulsion, 15-16 October 2019, London, UK


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International Conference
ICCAS 2019
24-26 September 2019
The Postillion Convention Centre WTC Rotterdam, Netherlands

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24-26 September 2019, Rotterdam, Netherlands

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The conference will take place in English.

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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 Ozumi, 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 Ferrerier, 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 NAVALS EU PROJECT, Richard Audaire, Emilie Lenglet, Dassault Systèmes, France

ESCAPE AND EVACUATION (E&E) DURING SHIP CONSTRUCTION - AN ALTERNATIVE USE OF E&E SOFTWARE, Mark Way, Nick Brrophy, 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 Stenonstreet, Antonio Retamero, AVEA, 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 Costantini, 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, Portugal

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

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

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

INVENTORY STRATEGY OPTIMIZATION FOR MODULAR SHIP PRODUCTION, Tom van der Beek, Delft University of Technology, the Netherlands

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THE DEVELOPMENT OF SPEEDS (SMART PLATFORM OF ENHANCED ENGINEERING DATA FOR SHIPPING AND SHIPBUILDING) AND INNOVATIVE USE OF SHIP 3D DATA CROSS THE BORDERS BY CADS, Takahiro Hiramatsu, Mitsubishi Shipbuilding Co., Ltd, Kunihiro Hamada, Hiroshima University, Yoshimichi Sasaki, ClassNK, Masaru Ozaki, NTT Data Engineering Systems Corporation, Japan

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

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NEW CALCULATION METHOD AND SOFTWARE FOR ENHANCED EFFICIENCY OF CONTAINER STOWAGE, Viktor Wolf, DNV GL, Germany

HOLISTIC SHIP DESIGN - ENABLING HOLISTIC THINKING ACROSS ORGANISATIONS WITH DIGITAL COMPONENTS, Torben-H Stachowski, DNV GL, Germany

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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

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

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INTRODUCING OPERATIONAL INFORMATION INTO EARLY STAGE SHIP DESIGN FOR INTERNAL LAYOUT AND PROCESS DRIVEN SHIPS USING QUEUEING NETWORKS, Koen Droste, Hans Hopman, Austin A. Kana, Delft University of Technology, Bart van Oers, Defence Material Organisation, the Netherlands

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A DIGITAL TWIN IS NOT A DIGITAL TWIN: AN ATTEMPT TO CLEAR THE FOG, Jose Esteve, Bureau Veritas, France

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