Tuesday, 23 May 2023

09:00h Masui, Seppälä, Son, Huotari (NAPA)
Collaborative Single-Model Design Platform for Ships of Tomorrow

09:25h Kannengießer (PROSTEP)
Enable the Best Shipbuilding Toolset

09:50h Gualeni, Petacco (Univ. Genoa), Zini (Fincantieri)
The Role of the Digital Twin for a Ship Life Cycle Perspective: A Focus on Naval Vessels

10:15h coffee break

10:45h Dahlke (Helmut-Schmidt-University), Schmelzer (NVL)
Incentives to Holistic Methodology and Computer Aided Tool Support in Naval Vessels Design

11:10h Astrup, Aae, Grønlie (DNV), Uyanik (AVEVA), Gigernes (Kongsberg)
Enhancing the 3D Approval Process using Functional Zones in Ship Design

11:35h Gusani (Meyer Turku), Radonić (AITAC), Puurula (RSD)
OCX Standard and Structural Model Reuse in the Shipbuilding Design

12:00h Zerbst (PROSTEP)
OCX on the Way from Research to Industry Practice

12:25h Lunch

13:30h Ahmed, Harries (Friendship Systems), Lohse, Salecker (NAVASTO)
Parametrics, Simulation, DoE and Machine Learning for the Design of a Planing Boat

13:55h Hildebrandt, Albert (NUMECA), Carugno (Gloss Design), Migeotte (Icarus Marine), Harries, Von Zadow (Friendship Systems)
Optimisation of an Electric Catamaran in the Early Design Stage

14:20h Walker, Coraddu, Oneto (TU Delft)
A Decoupled Approach to AI-based Design and Optimization of the Delft Systematic Yacht Hull Series

14:45h coffee break

15:15h Erikstad (NTNU), Bekker (Stellenbosch Univ.), Garcia Agis (Ulstein)
*Designing Engineering Services Based on Digital Twins –
An Arctic Navigation Case*

15:40h Brahan, DeNucci, Glivar (U.S. Coast Guard)
Numerical Simulation of Sea Spray Events in Extreme Weather Conditions

16:05h DeNucci, Brahan, Kerst, Oyola (U.S. Coast Guard)

Improving Vessel Safety with a Digital Twin for Ice Accretion

Wednesday, 24 May 2023

09:00h Seppälä (Cadmatic)
Integrated Shipbuilding Data Management

09:25h Bertram (DNV)
CAVE Matrix Reloaded

09:50h Gaspar (NTNU), Seppälä (Cadmatic), Koelman (SARC), Garcia (Ulstein)
Can European Shipyards be Smarter? A Proposal from the SEUS Project

10:15h coffee break

10:40h Hinz, Mazerski, Krishnan, Molchanov, Elg, Wejberg (Deltamarin)
Digital Twin for Evaluation of Emission Reduction by Novel Technologies

11:10h Ioannou, Christodoulou, Karypidis, Korbetis (BETA CAE Systems)
Elevating Maritime Design to a Higher Level with Advanced Engineering Simulation

11:35h Dæhlen, Heierli-Nesse, Bø (SINTEF Ocean)
Open-Source Web Service for Fast and Reliable Handling of Weather Data for Use in Maritime Simulations

12:00h Koelman (SARC)
Tell Me More

12:25h Lunch

13:30h Saxena, Nagarajan (Indian Institute of Technology) –
ML-Based Resistance and Powering Prediction of the BSRA Trawler Series

13:55h Bertram (DNV), Bentin (HS Emden)
Applying ANNs to Derive Empirical Design Formulas for Harbor Tugs

14:20h Maathuis, Dijkstra, Aghaei, De Geus-Moussault, Koelman (NHL Stenden**)**
Corrosion Cracking Segmentation in Ship-Vessels using Few-Shot Techniques

14:45h coffee break

15:15h Nakilcioğlu, Reimann, John (Fraunhofer CML)
Adaptation and Optimization of Automatic Speech Recognition (ASR) for the Maritime Domain in the Field of VHF Communication

15:40h Gaspar (NTNU), Bertram (DNV)
The Use of ChatGPT and Similar AI in Marine Engineering: Challenges and Opportunities

16:05h Compit Future announcement
Compit award given to tbd

Thursday, 25 May 2023
Session Chair: Henrique Gaspar

09:00h Edwards, Levine (NSWC-CD)
Operator Guidance Informed by AI-Augmented Simulations

09:25h Gautier, Doeleman (Deltares), Procee (NHL Stenden)
Wind Assisted Ship Propulsion Route Optimization using Short Span High Accuracy Weather Forecast

09:50h Stochholm, Mikkelsen (UCL), Haastrup (FCMTE)
Towards Refining Related Ferry Operational Patterns with Unsupervised Learning - A Case Study

10:15h coffee break
Session Chair: Herbert Koelman

10:45h Andrade, Tannum (USN), Wold (ABB), Indergård (HMS), Roe (ZEMS)
Development of a Small Autonomous Surface Vehicle for Academic Competitions, Research and Teaching

11:10h Ferretti, Bibuli, Bruzzone, Caccia, Aracri, Motta, Odetti, Diez, Serani (CNR)
Procedures for Maneuverability Characterization: From Ships to Marine Robots

11:35h Bertram (DNV), Harries (Friendship Systems)
3D Mapping of Underwater Hulls for Robotic Guidance

12:00h Stensrud, Bjørdalsbakke (DNV)
Concept of a Digital New Hull Survey Process

12:25h Lunch

Session Chair: Annie Bekker

13:30h Schütz, Genschorek (TU Berlin), Holzki (Alberding)
Design of a Heterogeneous Information Platform for the Acquisition and Processing of Relevant Data for Autonomous Operation on Inland Waterways

13:55h Jørgensen, Bellingmo, Mørkrid (SINTEF Ocean)
Automated Mooring Systems

14:20h Bekker, De Koker (Stellenbosch Univ)
Towards a Digital Twin to Inform Propulsion Safety Margins in Ice

14:45h coffee break
Session Chair: Tom De Nucci

14:50h Silonosov, Henesey (BTH)
SECMAR Project: Enhancing Maritime Cybersecurity with Drones and Drone Management in the South Baltic Region

15:15h Žagar, Šfiligoj, Satler, Dimc (University of Ljubljana)
The Biometrical Measurements Concept: Increasing Maritime Safety, Including Biometrical Readings on Ship's Bridge and IoT

18:00h Dinner Gemeindekrug Drübeck
Schnitzel with white asparagus, potatos, sauce hollandaise
or vegetarian farmers pan
apple strudel with vanilla ice cream and whipped cream
beer or non-alcoholic beer