

SMC 2018
Technical Paper Sessions

Manuscript Title	Author(s)
A Perspective on US Navy Early Stage Design Tools and Future Challenges	Ames, Bob; Cooper, Kelly
A Case Study on Transformable Submersible Hydrofoil Trimaran	Pan, Yipeng; Sahoo, Prasanta; Lin, Yuchen
A Marine Forensic Analysis of the Sinking of SS El Faro	Kery, Sean; Adams, Jared
A Mathematical Method for Cost Performance and Efficiency in Ship Economics	Gullaksen, Joannes
A Mathematical Method for Wave Energy Converter Economics and Cost Performance	Gullaksen, Joannes
A Method for Extracting the Work Status in Shipyard Using Deep Neural Networks	Tanaka, Takashi; Shinoda, Takeshi
A Semi-Automatic Tool for Building 3D Acoustic Ship Models	YANG, WENLONG; Woolliscroft, Marc; de Alba Alvarez, Ricardo
A Set-Based Thinking and Engineering Reasoning Approach to Set-Based Design	Whitcomb, Clifford; Hernandez, Alejandro
Adjustable Energy Saving Devices for Transom Stern Naval Vessels	Salian, Rachit; Brizzolara, Stefano
Air Weight and Air Buoyancy Influences on Total Ship Buoyancy	Calic, Bruno; Kolich, Damir
An Agile Organization Approach to Digital Transformation	Jennings, Philip; Debbink, Mark
An Investigation of Turbulence Stimulation on 3D Printed Model Propellers	Husser, Nicholas; Onas, Adrian
Anomaly detection and prognostics for unmanned systems using non-invasive sensors	Radke, Aaron; A'Hearn, Kevin; Williamson, Sheri; Angle, Blaire; Wagner, Aaron

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Application Potentials of Magneto-Hydro-Dynamic Propulsors to Autonomous Underwater Vehicles	Bansal, Parth; Brizzolara, Stefano
Artificial Intelligence for Shipboard Asset Failure Prediction	Mitchell,.Walter
CAD Conversion & Integration for Marine Industry	Grau, Matthias; Zerbst, Carsten
Computing Tool for Calculating the Hydrodynamic Coefficients Using Conformal Mapping	Ferreira, Hugo; Silva, Paulo; Moreira, Miguel
Conceptual Design of an Autonomous Sailing Vessel	Fraize, Julian; Fürth, Mirjam
Cultural Collision – Modernizing a Traditional Shipyard	Ganoe, Marcia Ganoe; Glidden, Joshua
Development of Modeling Techniques for the ‘HiDep’ Welding Process	Dydo, James; Jones, Jerald; Rhoades, Valerie
Development Ultra-Low Distortion Stiffened Panels for ships using the ‘HiDep’ Two Sided T-Fillet Welding Process	Jones, Jerald; Rhoades, Valerie; Dydo, James; Holverson, Todd; Hepinstall, Lisa; Mann, Mark; Gaffney, John; Cuneo, Adam; Byron, Clay
Digital Twin Comes to Life! "2D to 3D"	Debbink, Mark
Dynamic Hydroelastic Response of a Surface-Piercing Strut in Waves	Wright, Tristan; Harwood, Casey; Yoon, Hyunse; Young, Yin Lu
Emerging Mobile Applications for Real-Time Visualization of Smart 3D As-Built Models in Ship Lifecycle Management.	Males, David
Experimental Study of the Spatial and Temporal Evolution of Wind-Generated Waves	Chen, Tomer; Wang, Yichuan; Bundoff, Jason; Yoon, Hyunse; Young, Yin Lu; Gose, James
HM&E Standard Design Modules	Dlugokecki, Victoria; Dydo, James

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How to Implement Tech in Shipbuilding: Charting the Course to Success	Morais, Denis; Waldie, Mark
Hull Roughness Effects and its Effects on Required Freight Rate	Daidola, P.E., John; Esposito-Kelley, Dillon; Haland, Max
Integrated design of an eco-friendly luxury sailing super-yacht	Mauro, Francesco; Sorrenti, Giuseppe; Bonfiglio, Luca; Bucci, Vittorio
Integration of CAD and FEA for Analyzing Lifting Scenarios within Ship Products	Roberts, Patrick; David, Patrick
Interactive Paperless Solution using Mobile Device in Ship and Offshore Production	Park, Jungseo; Choi, Youngsu; Park, Inha; Lee, Jeonghoon; Heo, Heeyoung
Knowledge Provisioning to Improve First Time Quality of Ship Design	Burek, Greg; Dlugokecki, Victoria; Boisvert, Steve
LNG as Fuel Design Considerations	Cotta, William; Haugh, William; Franklin, Jr., Lee
Loading Conditions for Exposed Waters Towing Vessels Regulated Under Subchapter M	Morgan, Erin; Bragraw, William; Bruno, Stephen; Schock, James; Taylor, Todd
Management of Ship Design Information through a CAD-PLM Advanced Technology	Perez Fernandez, Rodrigo; Penas, Roberto
Maritime Classification Societies' Role in the Development of Aviation Verification and Validation Processes	Endrikat, Jonathan; Ferreiro, Larrie
Model-based Computational Shipyard Dynamics and its Applications	Shin, Jong Gye; Kim, Youngmin; Jeong, Yong-Kuk; Woo, Jong Hun; Ryu, Cheolho
Naval Shipbuilding Expansion: Understanding the World War II Surface Combatant Experience	Doerry, Norbert
New source bias: environmental policy risks raising maritime shipping emissions	Eskeland, Gunnar; Lindstad, Elizabeth; Strandenenes, Siri

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On the Creation of Safe Operating Envelopes for Ships	Kery, Sean; Henry, Scott; Eaton, Michael; Vasilakos, John
Real Performance in Seaways and its - impact on Ship Design	Lindstad, Elizabeth; Borgen, Henning; Sandaas, Inge
Remote Diagnostics for Analyzing Advanced Ice-Breaking Propulsion Control	Barisic, Matko; Parrondo Martinez, Yago; Lee, Bo-Won; Wendt, Frank
Shock-Qualified Stern Tube Seal with Improved Capabilities and Reduced Total Ownership Cost	Ludlow, Chris; Klepper, Steven; Spadafora, Mark
Stability and the Autonomous Ship	Siltanen, Jussi
Stalking the Mythical Validation Beast, or exploring the input landscape for seakeeping	Kery, Sean; Bragulla, Pauk
Swage Panel Analyses: Finite Element Analyses of Effective Laminated Plates	Karr, Dale; Zhang, Yuxi; Yu, Han; Wang, Mengze
Swage Panel SVR Rule Development	Green, Jessica
The Digital Twin throughout the Lifecycle	Van Os, Jan
The Goldilocks Effect in Naval Ship Design: Too Little, Too Much, Just Right	KEANE, ROBERT; Tibbits, Barry
The Interaction of Ships with Wind - Current Practice and Future Possibilities	Basu, Roger
The SNAME OpenCalc System	Hollister, Stephen
Thermal Insulating Coatings for Achieving R Value using Aerogel Filled Coatings	POPE, Greg

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Toward a Maritime Cyber Security Compliance Regime	McCready, Jack; Heckman, Mark; Mayhew, David; Callahan, Winnie
Underwaterwater Noise and Marine Life: Why should the SNAME care?	Heise, Kathy
Virtual Captive Tests as a New Tool for Early Maneuvering Performance Assessment	Korkmaz, Kadir; Alexandersson, Martin; Mazza, Gabriele; Gustafsson, Lars
Visualizing and Understanding the Operational Dynamics of a Shipping Operation	Smith, Doug; Veitch, Erik; Veitch, Brian; Khan, Faisal; Taylor, Rocky
Weld Fume Safety Practices for Shipbuilders	Beaumont, Duncan; Snell, Kim
Weld Residual Stress Measurement on Ship Structures	Yang, Yu-Ping; Huang, T.D.; Scholler, Steven; Dull, Randy; Fisher, Charles; Zhang, Wei