

INT-NAM 2023

4th International Symposium on Naval Architecture and Maritime

11-13 October 2023, Yildiz Technical University Auditorium, Yıldız, Besiktas, Istanbul

PROGRAM

	Wednesday, October 11th, 2023
09:00 - 09:50	REGISTRATION
	OPENING SPEECHES
09:50 - 10:25	Prof. Ahmet Dursun ALKAN Symposium Chair
(1	SESSION_1: KEYNOTE PAPERS
10:30 - 11:00	Towards Green and Intelligent Technology in the Shipping Industry
Σ	Prof. Carlos GUEDES SOARES CENTEC, University of Lisbon, Portugal
10:30 - 11:00 11:05 - 11:35	Alternative Methods of Maritime Transport of Natural Gas in the Mediterranean Sea Prof. Giorgio TRINCAS University of Trieste, Italy
11:40 - 11:55	COFFEE BREAK
11.10 11.33	Design of a Full-Scale Wave Energy Converter: Challenges and Technological Solutions
11:55 - 12:25	Prof. Muhammad HAJJ Stevens Institute of Technology, USA
12:30 - 13:00	Global Marine Technology Trends, Drivers and Challenges Prof. Atilla INCECIK University of Strathclyde, Glasgow, UK
13:05 - 14:00	LUNCH BREAK
	SESSION 2. KEYNOTE PADER
	SESSION_2: KEYNOTE PAPER The Kobold Turbine - The First Full-Scale Plant for the Exploitation of Marine Currents
14:00 – 14:30	Ing. Alberto MOROSO, ATENA, Italy
Chair R. Datla - A.D.Alkan	SESSION_3: SUSTAINABLE INNOVATIONS & NATURE-BASED SOLUTIONS
Chair R. Datla - A.D.Alkan 14:30 - 14:50 14:50 - 15:10 15:10 - 15:30	Additive Manufacturing (3D Printing) for the Sustainable Future of the Maritime Industry: Real-World Applications and Case Studies Sirin, Tolga Berkay; Bayer, Muhammed Umar; Tur, Erkan
14:50 - 15:10	An Innovative Ocean Cleanup Hullform Datla, Raju; Yildiz, Burak
15:10 - 15:30	Dark Side of Microplastics on Marine Environment and Sustainability: A Review of Accumulation and Fragmentation of Microplastic and Its Effect on Global Marine Environment and Individual Company of Microplastic States (1988) (
15:30 - 15:50	Industry Osma, Büşra; Akın Evingür, Gülşen Sustainability-driven analysis of trends in the global market of high speed marine craft Gülcemal, Ömer Faruk; Korkmaz, Berna; Gürsel, K. Turgut; Kaplanoğlu, Murat;
15:50 - 16:10	Neşer, Gökdeniz Improving the Performance of the Ship Propellers with Sustainable Materials and Manufacturing Altunsaray, Erkin; Sözen, Ayberk; Doğru, Alperen; Halilbeşe, Akile Neşe; Türkmen, Serkan; Neşer, Gökdeniz
16:10 - 16:30	Routes for Systemic Resilience in Yacht Building Industry: Life Cycle Assessment for Sustainability Gurler Akdeniz, Ahu
	Concurrent Sessions
Chair D.B. Danışman	SESSION_4: GREEN TECHNOLOGIES
14:30 - 14:50	Comparative study of methanol-fuelled ICE and solid oxide fuel cell power systems on board ships Mocerino, Luigia; Coppola, Tommaso; Micoli, Luca; Quaranta, Franco; Russo, Roberta
14:50 - 15:10	
2	The Potential of Cold Plasma Technology in Ballast Water Treatment Pour Rahmati Khalejan, Seyed Hamed
15:10 - 15:30	The Potential of Cold Plasma Technology in Ballast Water Treatment Pour Rahmati Khalejan, Seyed Hamed An investigation about green ports in Bodrum Ergin, Selma; Ertuğrul, Mustafa; Mocerino, Luigia; Micoli, Luca; Quaranta, Franco
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PROGRAM

2023	
	Thursday, October 12th, 2023
	SESSION_8: KEYNOTE PAPERS
09:10-09:40	H2020 GATERS Project – The Uncompromising Energy Efficiency Solution for Ships and Marine Environment
	Prof. Mehmet ATLAR University of Strathclyde, Glasgow, UK
09:40 - 10:10	H2020 GATERS Project - How We can Explain 35-55% Energy Saving Obtained from the Target Ship ERGE
	Prof. Noriyuki SASAKI University of Strathclyde, Glasgow, UK
10:10 - 10:40	The use of differential evolution algorithms to determine ship roll damping coefficients from decay tests
	Prof. Radoslav NABERGOJ NADSIS PDS, Izola, Slovenia
10:40 - 10:50	COFFEE BREAK
Chair N. Sasaki	SESSION_9: MARITIME HUMAN FACTORS
10:50 - 11:10	Teaching Marine Environmental Terms in compliance with MARPOL Convention through On-line Methods Smirnov, Igor O; Dokuto, Bozhena; Kurshakova, Tatyana
11:10 - 11:30	"Force Majeure", Extension of Time Clauses and the Prevention Principle in Shipbuilding Contracts Tasic, Zoran
11:30 - 11:50	Reflections of Autonomous Systems on the Labour Force of the Maritime Industry: An Explanatory Study Aktepe, Çağlar; Ayaz, İlke Sezin; Bayırhan, İrşad; Bucak, Umur
11:50 - 12:10	The Effects of the Ship Rolling on the Ship's Crew Sokukcu, Mustafa; Yuksel, Onur; Bayraktar, Murat
12:10 - 12:30	Environmental, Social and Governance in the Shipping Industry: From the Perspective of EU and Turkey Tomur, Huriye Dilbeste
	Concurrent Sessions
Chair R. Nabergoj F.Cakici	SESSION_10: SHIP STABILITY, SEAKEEPING AND CONTROL
10:50 - 11:10	Effects of the Bilge Keel Shape on Roll Damping Çopuroğlu, Hasan İslam; Pesman, Emre ; Katayama, Toru
11:10 - 11:30	Effect of Damping on Roll Motion of Ships Taylan, Metin; Pinar, İbrahim
11:30 - 11:50	Roll damping system on ships: Fin stabilizer Uysal, Ömer Faruk; Cankurt, Tolga
11:50 - 12:10	Model Based Navigation and Control of a Tankship in Narrow Waterways Ozcan, Abdurrahim Bilal; Bayezit, Ismail; Kinaci, Omer Kemal
12:10 - 12:30	Numerical Simulation of Wave Forces Acting on Large Cylinders Tunçay, Rabia Yağmur; Bayraktar Bural, Deniz
12:30 - 12:50	Investigation of Dead Ship Condition for a Naval Ship within the Framework of 2nd Generation Stability Criteria Doganci, Ali; Cakici Ferdi
12:50 - 13:55	LUNCH BREAK
Chair G. Trincas	SESSION_9 (cont.): MARITIME HUMAN FACTORS
13:55 - 14:15	The Specificity of Information Integration and Information Display in the Man-Machine System Popov, Anatoliy; Zelenkov, Gennadiy; Kondratiev, Alexey; Smirnov, Igor
14:15 - 14:35	Contribution of human error to ship machinery failure: Mapping fault tree analysis into Bayesian network Jovanovic, Ivana; Vladimir, Nikola; Percic, Maja
14:35 – 14:55	Wrong Use of the Standard Marine Communication Phrases Farjami, Fahimeh
14:55 - 15:10	COFFEE BREAK
Chair N. Sasaki	SESSION 11: DATA AND ARTIFICIAL INTELLIGENCE
15:10 - 15:30	On the Turning Circle Performance of a Car Carrier using SI method Atasayan, Elis; Milanov, Evgeni; Alkan, Ahmet Dursun
15:30 - 15:50	Innovative Solutions for Aquaculture: Analysis of AI and Mobile App Advancements for Early Warning and Optimization of Production Processes Bujas, Tena; Vladimir, Nikola; Koričan, Marija; Soldo, Vladimir; Ćatipović, Ivan; Tonković, Zdenko; Omanović, Dario
15:50 - 16:05	
	Digitalization in Maritime Technologies Mert, Süleyman
16:05 - 16:25	
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16:25 - 16:45	Digitalization in Maritime Technologies Mert, Süleyman Data-Based Sustainable Maritime Developments Gunes, Umit COFFEE BREAK
16:25 - 16:45 Chair U. Gunes	Digitalization in Maritime Technologies Mert, Süleyman Data-Based Sustainable Maritime Developments Gunes, Umit COFFEE BREAK SESSION_12: MARITIME GENERAL (Online)
16:25 - 16:45	Digitalization in Maritime Technologies Mert, Süleyman Data-Based Sustainable Maritime Developments Gunes, Umit COFFEE BREAK SESSION_12: MARITIME GENERAL (Online) Indices for the degree of concentration of NAPA ports in the container market Hess, Svjetlana; Hess, Mirano Ensuring Environmental Sustainability in the Context of Innovation through High-Quality Training of Seafarers Using VR Technologies Yurzhenko, Alona; Voloshynov, Serhli;
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Chair U. Gunes 16:45 – 17:05 17:05 – 17:25 17:25 – 17:45 17:45 – 18:05 Chair S. Calisal,	Digitalization in Maritime Technologies Mert, Süleyman Data-Based Sustainable Maritime Developments Gunes, Umit COFFEE BREAK SESSION_12: MARITIME GENERAL (Online) Indices for the degree of concentration of NAPA ports in the container market Hess, Svjetlana; Hess, Mirano Ensuring Environmental Sustainability in the Context of Innovation through High-Quality Training of Seafarers Using VR Technologies Yurzhenko, Alona; Voloshynov, Serhil; Danyk, Vadym Drag Reduction of Bluff Bodies by Passive Canals: A Numerical and Experimental Study Taşdemir, Ahmet; Akman, Mehmet Energy-Efficient Inland Ship Design Based on EEDIBD Parameters Using CFD Hasan, S M Rashidul; Karim, M M Concurrent Sessions SESSION_13: ENERGY EFFICIENCY A brief history of the Flettner ship, an archetype of sustainable marine propulsion design Corradi, Massimo; Tacchella, Claudia
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INT-NAM 2023



4th International Symposium on Naval Architecture and Maritime

11-13 October 2023, Yildiz Technical University Auditorium, Yıldız, Besiktas, Istanbul

PROGRAM

	Friday, October 13th, 2023
Chair Özden Y.A.	SESSION_14: MARINE DESIGN AND SAFETY
09:10 - 09:30	An Economic Design Proposal for Air Cushion Vehicles Gürenli, Sarp
09:30 - 09:50	Additive Manufacturing Design of a Boat Bow Chock and Prototype Fabrication by Fused Deposition Modeling with Carbon-fiber Filament Kılıç, Altuğ; Ayaydın, Mehmet; Taşdemir, Ahmet; Hayran, Necip; Oğuz, Ali
09:50 - 10:10	Corrosion Behaviour of Underwater Wet-Welded Shipbuilding Steel Weld Zone Alkan, Sabri; Gülen, Mahir
10:10 - 10:30	Navigating Uncertainty: Robust Path Planning for Autonomous Underwater Vehicles in Turbulent Environments Abdelkhalek, Mostafa; Bayezit, İsmail
10:30 - 10:50	Quantifying human factor in ships operation via an Al based emotions recognition Pagani, Laura; Gemelli, Paolo; Zignego, Mario Ivan; Bertirotti, Alessandro
10:50 - 11:10	Intact and Damaged Stability Assessment of the BB2 Joubert Submarine Eken, Serdar; Arıkan Özden, Yasemin
11:10 - 11:25	Using the Blockage Assessment Model (BAM) in the Weapon Integration Phase of a Warship Design Aldemir, Furkan; Sener, Bekir
11:25 - 11:45	COFFEE BREAK
	Concurrent Sessions
Chair Bayraktar S.	SESSION_15: SHIP RESISTANCE
09:10 - 09:30	Enhancing Measurements of Added Resistance in Regular Waves Based on Uncertainty Analysis Sogihara, Naoto Sogihara; Hamada, Tatsuya; Wako, Daisuke
09:30 - 09:50	Experimental investigation on the effect of single and double interceptor systems on planing hull efficiency with different loading conditions De Luca, Fabio; Mancini, Simon Pensa, Claudio; Pigazzini, Riccardo; Sorrentino, Vincenzo
09:50 - 10:10	Ship Resistance Reduction Methods Ulucutsoy, Aleyna; Saraç, Betül; Aksu, Erhan
10:10 - 10:30	Computational Investigations of Flow Characteristics around Different Sail Geometries and their Effects on Resistance for DARPA Suboff Yılmaz, Naz; Dobrucalı, Erinç
10:10 - 10:30	COFFEE BREAK
10:30 - 10:50	Investigation of Hydrodynamic Performance of an Underwater Vehicle Cruising at Depths Near Free Surface Taner, Mesut; Gürsel, K. Turgut
11:10 - 11:25	Form Optimization of a Swimmer Delivery Vehicle (SDV) Eroğlu, Hasan; Yıldız, Aziz Kerim; Egrin, Bünyamin; Akkaya, Gökhan; Kuzu, Mukaddes; Bolat, Tunç; De Özgür; Yurtseven, Ahmet
Chair Alkan A.D.	SESSION_16: NAVIGATING SUSTAINABLE PROJECT MANAGEMENT IN THE COMPLEXITY OF MARITIME SECTOR (Online
12:00 - 12:20	Navigating Complexity: Project Management in Shipbuilding Industry Acikel, Erdinc; Yenici Tolga
12:20 - 12:40	Navigating Complexity: Risk Management in Shipbuilding Industry Yenici, Tolga; Acikel, Erdinc
12:40 - 13:00	Effect of passing loaded mass through a submerged circular cylindrical pipe bridge in a two-layer fluid in front of a cliff as a vertical wall Ghosh, Minakshi; Das, Dilip
13:00 - 13:55	LUNCH BREAK
Chair E. Sulukan	SESSION 17: MARINE DESIGN AND SAFETY (continues)
13:55 - 14:15	Investigation of Reinforced Cylindrical Composite Panels Against Air Blast Load Uğurlu, Abdulkadir; İnce, Serdat Turgut
13:55 – 14:15 14:15 – 14:35	Investigation of Reinforced Cylindrical Composite Panels Against Air Blast Load Uğurlu, Abdulkadir; İnce, Serdat Turgut Developing TIMES Model for an Oil Product Tanker Ship Sulukan, Egemen
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