

VERNENGO GIULIANO

Overview

? Unit: NAV
? Role: Professore associato
? Grade: Prof.Associato Legge 240/10 - t.pieno - classe 0
? SSD: IIND-01/A (Architettura navale)
? Scopus ID: 37662376400
? Unige Id: 264758
? Retrieved at: 2025-11-14T15:13:41.962196

Contact

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? Page: <https://rubrica.unige.it/personale/V0VDXF9h>
? Locations: Villa Cambiaso - padiglioni (ED161450103), 1° piano, US161450103.I.019

Career

? Cb, 2012-11-29 ? 2017-09-15
? Ar, 2013-02-01 ? 2019-06-30
? Rd, 2019-07-01 ? 2024-09-30
? Pa, 2024-10-01 ? 2222-02-02

Teaching

2025

? Geometria Dei Galleggianti (56991), L-9 - Ingegneria Nautica
? Architettura Navale Sperimentale (115628), Lm-34 - Ingegneria Navale
? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design
? Yacht Dynamics (66399), Lm-34 - Yacht Design

2024

? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Architettura Navale Sperimentale (115628), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design

2023

? Geometria Dei Galleggianti A (56991), L-9 - Ingegneria Nautica
? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design

2022

? Geometria Dei Galleggianti A (56991), L-9 - Ingegneria Nautica
? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design

2021

? Geometria Dei Galleggianti A (Cdl) (56991), L-9 - Ingegneria Nautica
? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design

2020

? Geometria Dei Galleggianti A (Cdl) (56991), L-9 - Ingegneria Nautica
? Dinamica Della Nave (84437), Lm-34 - Ingegneria Navale
? Yacht Dynamics (66399), Lm-34 - Yacht Design

Scopus Metrics

? absolute; Docs: 68; Journals: 36; Conferences: 30; Citations: 893; H-index: 18

? 15 years (2010-2025); Docs: 68; Journals: 36; Conferences: 30; Citations: 893; H-index: 18

? 10 years (2015-2025); Docs: 60; Journals: 33; Conferences: 25; Citations: 738; H-index: 15

? 05 years (2020-2025); Docs: 26; Journals: 14; Conferences: 10; Citations: 175; H-index: 8

Scopus Products

1.

? Title: A B-Spline Rankine Panel Method for the Double-Body Flow Problem Solution for Time Domain Seakeeping Applications

? Venue: Progress in Marine Science and Technology

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.3233/Pmst250038

? Scopus ID: 2-s2.0-105016141733

? Issn: 25430955

? eISSN: 25430963

? Volume: 10

? Pages: 303-312

? Authors: Soardi Francesco; Vernengo Giuliano

? Keywords: B-Spline | Computational hydrodynamics | Double-Body flow | Potential flow theory | Rankine Panel Method | Ship motions | Time domain simulations

? Quartile:

2025:

? Safety, Risk, Reliability and Quality (Q4, rank 200, percentile 22)

? Ocean Engineering (Q4, rank 99, percentile 15)

? Mechanical Engineering (Q4, rank 640, percentile 13)

? Source Id: 21101107127

? Author Ids: 59338018400;37662376400

? Authoraffiliationids: 60025153;60025153

? Corresponding: Soardi F.

2.

? Title: Far-Field Wake Modeling for Automatic Ship Detection from Satellite Imagery

? Venue: Progress in Marine Science and Technology

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.3233/Pmst250096

? Scopus ID: 2-s2.0-105016136634

? Issn: 25430955

? eISSN: 25430963

? Volume: 10

? Pages: 810-817

? Authors: Petacco Nicola; Villa Diego; Franciosa Federico; Mazzeo Andrea; Cristofano Angela Carmen; Rossini Fabio; Graziano Maria Daniela; Scarpa Marco; Braga Federica; Vavasori Paolo; Bonaldo Davide; Vernengo Giuliano

? Keywords: Computational Fluid Dynamics (CFD) | Ship far-field wake | Synthetic Radar

Aperture (SAR) | Waves

? Quartile:

2025:

? Safety, Risk, Reliability and Quality (Q4, rank 200, percentile 22)

? Ocean Engineering (Q4, rank 99, percentile 15)

? Mechanical Engineering (Q4, rank 640, percentile 13)

? Source Id: 21101107127

? Author Ids: 57193804322;56250522200;59477918000;59140311700;59478136200;60102747200;36815910800;60102591100;36678807100;59477805600;35104377300;37662376400

? Authoraffiliationids: 60025153;60025153;60157272;60017293;60017293;60017293;60017293;60021199;60021199;60021199;60021199;60025153

? Corresponding: Petacco N.

3.

? Title: Investigation of the thrust generated by active isolated hydrofoils via wave-induced ship motion

? Venue: Ocean Engineering

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 1

? DOI: 10.1016/j.oceaneng.2024.120134

? Scopus ID: 2-s2.0-85212327912

? Issn: 00298018

? Volume: 317

? Authors: Sadeghi Mohamad; Zeraatgar Hamid; Ghaemi Mohammad Hossein; Vernengo Giuliano

? Keywords: Active hydrofoil | CFD | Regular waves | Ship resistance | Thrust

generation

? Quartile:

2025:

? Ocean Engineering (Q1, rank 6, percentile 95)

? Environmental Engineering (Q1, rank 38, percentile 83)

? Source Id: 28339

? Author Ids: 57218449403;6507818776;57194170368;37662376400

? Authoraffiliationids: 60007751;60007751;60027012;60025153

? Corresponding: Sadeghi M.

4.

? Title: A Deep Learning-based Multi-Modal Approach for Wake Detection

? Venue: 2025 IEEE International Workshop on Metrology for Aerospace Metroaerospace 2025 Proceedings

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/MetroAeroSpace64938.2025.11114590

? Scopus ID: 2-s2.0-105015462421

? Pages: 728-733

? Authors: Cristofano Angela Carmen; Mazzeo Andrea; Graziano Maria Daniela; Renga Alfredo; Vernengo Giuliano; Bonaldo Davide; Villa Diego; Petacco Nicola; Scarpa Gian Marco; Braga Federica; Vavasori Paolo; Menegon Stefano; Fadini Amedeo

? Keywords: Deep Learning | Multi-Modal | Object Detection | Remote Sensing | SAR |

Ship Wakes

? Source Id: 21101329124

? Author Ids: 59478136200;59140311700;36815910800;25632802300;37662376400;35104377300;56250522200;57193804322;56469066700;36678807100;59477805600;12786659400;57200122065

? Authoraffiliationids: 60017293;60017293;60017293;60017293;60025153;60021199;60025153;60025153;60021199;60021199;60021199;60021199;60021199;60021199

? Corresponding: Cristofano A.C.

5.

? Title: Advancing Maritime Surveillance with UEIKAP: An Integrated AI-Based Framework for Wake Detection in Earth Observation Imagery

? Venue: Oceans Conference Record IEEE

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Oceans58557.2025.11104403

? Scopus ID: 2-s2.0-105015040706

? Issn: 01977385

? Authors: Mazzeo Andrea; Cristofano Angela Carmen; Graziano Maria Daniela; Renga Alfredo; Vernengo Giuliano; Bonaldo Davide; Villa Diego; Petacco Nicola; Scarpa Gian Marco; Braga Federica; Vavasori Paolo; Menegon Stefano; Fadini Amedeo

? Keywords: Data Fusion | Maritime Surveillance | Object Detection | Ship Wakes | Synthetic Aperture Radar

? Quartile:

2025:

? Ocean Engineering (Q3, rank 84, percentile 28)

? Oceanography (Q4, rank 117, percentile 23)

? Source Id: 13654

? Author Ids: 59140311700;59478136200;36815910800;25632802300;37662376400;35104377300;56250522200;57193804322;56469066700;36678807100;59477805600;12786659400;57200122065

? Authoraffiliationids: 60017293;60025153;60017293;60017293;60025153;60021199;60025153;60025153;60021199;60021199;60021199;60021199;60021199;60021199

? Corresponding: Mazzeo A.

6.

? Title: A New Approach to the Estimation of Sea State Based on Shipboard Observations - Preliminary Results

? Venue: 2024 IEEE International Workshop on Metrology for the Sea Metrosea 2024 Proceedings

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/MetroSea62823.2024.10765784

? Scopus ID: 2-s2.0-85214352434

? Pages: 342-346

? Authors: Rossi Giovanni Battista; Vernengo Giuliano; Crenna Francesco; Soardi Francesco; Khalil Mohamad

? Keywords: measurement of sea state estimation | vessel responses | wave buoy analogy

? Source Id: 21101268310

? Author Ids: 24370575200;37662376400;6506125927;59338018400;59498472900

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Rossi G.B.

7.

? Title: UEIKAP: space-based ship wake detection integrating contextual meteo-marine knowledge of local sea state

? Venue: Proceedings of SPIE the International Society for Optical Engineering

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1117/12.3030884
? Scopus ID: 2-s2.0-85212407212
? Issn: 0277786x
? eISSN: 1996756X
? Volume: 13196
? Authors: Mazzeo Andrea; Graziano Maria Daniela; Vernengo Giuliano; Bonaldo Davide; Villa Diego; Franciosa Federico; Scarpa Gian Marco; Braga Federica; Vavasori Paolo; del Prete Roberto; Cristofano Angela Carmen; Di Vaia Margareth; Sperandeo Marisa; Iervolino Sergio
? Keywords: Data fusion | Deep learning | Maritime surveillance | Multi-spectral | SAR | Ship wake detection | Synthetic data
? Quartile:
2025:
? Instrumentation (Q4, rank 157, percentile 16)
? Electrical and Electronic Engineering (Q4, rank 873, percentile 12)
? Computer Science Applications (Q4, rank 893, percentile 9)
? Applied Mathematics (Q4, rank 625, percentile 6)
? Electronic, Optical and Magnetic Materials (Q4, rank 294, percentile 5)
? Condensed Matter Physics (Q4, rank 425, percentile 4)
2024:
? Instrumentation (Q4, rank 149, percentile 14)
? Electrical and Electronic Engineering (Q4, rank 851, percentile 12)
? Computer Science Applications (Q4, rank 867, percentile 8)
? Applied Mathematics (Q4, rank 614, percentile 7)
? Electronic, Optical and Magnetic Materials (Q4, rank 288, percentile 5)
? Condensed Matter Physics (Q4, rank 423, percentile 4)
? Source Id: 40067
? Author Ids: 59140311700;36815910800;37662376400;35104377300;56250522200;59477918000;56469066700;36678807100;59477805600;57419352600;59478136200;59478354500;59477579500;59478136300
? Authoraffiliationids: 60017293;60017293;60025153;60021199;60025153;60025153;60021199;60021199;60021199;60017293;60017293;60017293;60017293;60017293
? Corresponding: Mazzeo A.

8.

? Title: Seaworthiness and resistance performance of a catamaran at preliminary design stage
? Venue: Advances in Maritime Technology and Engineering Volume 2
? Year: 2024
? Type: Book
? Subtype: Book Chapter
? Citations: 0
? Doi: 10.1201/9781003508779-20
? Scopus ID: 2-s2.0-85204584893
? Pages: 179-187
? Authors: Soardi F.; Vernengo G.
? Source Id: 21101249110
? Author Ids: 59338018400;37662376400
? Authoraffiliationids: 60025153;60025153
? Corresponding: Soardi F.

9.

? Title: Three-dimensional Effects on Gap-Resonances in Twin-Hull Vessels in Time-Harmonic Vertical Oscillations

? Venue: Wseas Transactions on Fluid Mechanics
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.37394/232013.2024.19.18
? Scopus ID: 2-s2.0-85193294991
? Issn: 17905087
? eISSN: 2224347X
? Volume: 19
? Pages: 175-188
? Authors: Vernengo Giuliano
? Keywords: Boundary Element Method (BEM) | Catamaran; Piston Mode | Gap resonance | Sloshing frequencies | Wave energy | Wave Trapping
? Quartile:
2025:
? Computational Mechanics (Q3, rank 54, percentile 41)
? Fluid Flow and Transfer Processes (Q3, rank 59, percentile 40)
? Physics and Astronomy (all) (Q3, rank 158, percentile 36)
? Modeling and Simulation (Q3, rank 242, percentile 35)
? Ocean Engineering (Q3, rank 76, percentile 34)
2024:
? Ocean Engineering (Q3, rank 69, percentile 39)
? Computational Mechanics (Q3, rank 57, percentile 37)
? Physics and Astronomy (all) (Q3, rank 158, percentile 35)
? Fluid Flow and Transfer Processes (Q3, rank 63, percentile 35)
? Modeling and Simulation (Q3, rank 242, percentile 33)
? Source Id: 17700156004
? Author Ids: 37662376400
? Authoraffiliationids: 60025153
? Corresponding: Vernengo G.

10.

? Title: Large yacht resistance reduction by hydrodynamic multi-objective shape optimization
? Venue: Ship Technology Research
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 3
? Doi: 10.1080/09377255.2022.2054759
? Scopus ID: 2-s2.0-85127238168
? Issn: 09377255
? eISSN: 20567111
? Volume: 70
? Issue: 2
? Pages: 90-105
? Authors: Bigini Gabriele; Jacoby Martin; Steenbergen Annemarie; Francesco Minerva Luigi; Villa Diego; Vernengo Giuliano
? Keywords: boundary element method (BEM) | multi-objective optimization | Reynolds Averaged Navier-Stokes (RANS) | Shape optimization | wave resistance
? Quartile:
2025:
? Ocean Engineering (Q2, rank 55, percentile 53)
2023:

? Ocean Engineering (Q2, rank 31, percentile 70)
? Source Id: 27317
? Author Ids: 57555660600;57554505200;57554970000;57555660700;56250522200;37662376400
? Authoraffiliationids:
60025153-127899926;127899926;127899926;60029978;60025153;60025153
? Corresponding: Bigini G.

11.

? Title: Submarine Manoeuvrability Design: Traditional Cross-Plane vs. x-Plane Configurations in Intact and Degraded Conditions
? Venue: Journal of Marine Science and Engineering
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 4
? DOI: 10.3390/jmse10122014
? Scopus ID: 2-s2.0-85144980982
? eISSN: 20771312
? Volume: 10
? Issue: 12
? Authors: Piaggio Benedetto; Vernengo Giuliano; Ferrando Marco; Mazzarello Giorgio; Viviani Michele
? Keywords: design | manoeuvrability | rudder | stern planes | submarines | underwater vehicles
? Quartile:
2025:
? Ocean Engineering (Q1, rank 29, percentile 75)
? Civil and Structural Engineering (Q2, rank 110, percentile 73)
? Water Science and Technology (Q2, rank 77, percentile 72)
2022:
? Ocean Engineering (Q2, rank 39, percentile 61)
? Civil and Structural Engineering (Q2, rank 137, percentile 61)
? Water Science and Technology (Q2, rank 110, percentile 55)
? Source Id: 21100830140
? Author Ids: 57204360929;37662376400;7006903025;57892552100;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60083109;60025153
? Corresponding: Piaggio B.

12.

? Title: Preliminary Analysis on the Hydrostatic Stability of a Self-Aligning Floating Offshore Wind Turbine
? Venue: Journal of Marine Science and Engineering
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.3390/jmse10122017
? Scopus ID: 2-s2.0-85144967797
? eISSN: 20771312
? Volume: 10
? Issue: 12
? Authors: Scicluna Diane; De Marco Muscat-Fenech Claire; Sant Tonio; Vernengo Giuliano; Tezdogan Tahsin
? Keywords: FOWT | renewable energy | self-alignment | SPM | wind energy
? Quartile:
2025:

? Ocean Engineering (Q1, rank 29, percentile 75)
? Civil and Structural Engineering (Q2, rank 110, percentile 73)
? Water Science and Technology (Q2, rank 77, percentile 72)
2022:
? Ocean Engineering (Q2, rank 39, percentile 61)
? Civil and Structural Engineering (Q2, rank 137, percentile 61)
? Water Science and Technology (Q2, rank 110, percentile 55)
? Source Id: 21100830140
? Author Ids: 58033955000;55940054200;9241517500;37662376400;56046196100
? Authoraffiliationids: 60072651;60072651;60072651;60025153;60024724
? Corresponding: Scicluna D.

13.

? Title: On the Application of a Vortex Lattice Method to Lifting Bodies Close to a Free Surface
? Venue: Progress in Marine Science and Technology
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.3233/Pmst220079
? Scopus ID: 2-s2.0-85138191791
? Issn: 25430955
? eISSN: 25430963
? Volume: 6
? Pages: 676-683
? Authors: Solari Raffaele; Bagnerini Patrizia; Vernengo Giuliano
? Keywords: Boundary Element Method (BEM) | Hydrodynamics | Lifting Bodies | Partial Differential Equations (PDE) | Vortex Lattice Method (VLM)
? Quartile:
2025:
? Safety, Risk, Reliability and Quality (Q4, rank 200, percentile 22)
? Ocean Engineering (Q4, rank 99, percentile 15)
? Mechanical Engineering (Q4, rank 640, percentile 13)
2022:
? Ocean Engineering (Q4, rank 91, percentile 9)
? Safety, Risk, Reliability and Quality (Q4, rank 178, percentile 7)
? Mechanical Engineering (Q4, rank 600, percentile 4)
? Source Id: 21101107127
? Author Ids: 57711513500;11240414400;37662376400
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Solari R.

14.

? Title: Free Surface Hydrodynamics of Submarine Masts Configurations
? Venue: Progress in Marine Science and Technology
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.3233/Pmst220034
? Scopus ID: 2-s2.0-85138185072
? Issn: 25430955
? eISSN: 25430963
? Volume: 6
? Pages: 271-278

? Authors: Vernengo Giuliano; Gaggero Stefano; Villa Diego; Mazzarello Giorgio; Gualeni Paola
? Keywords: Computational Fluid Dynamics (CFD) | Smoothed Particles Hydrodynamics (SPH) | Submarine | Surface-piercing cylinders | Turbulent wake
? Quartile:
2025:
? Safety, Risk, Reliability and Quality (Q4, rank 200, percentile 22)
? Ocean Engineering (Q4, rank 99, percentile 15)
? Mechanical Engineering (Q4, rank 640, percentile 13)
2022:
? Ocean Engineering (Q4, rank 91, percentile 9)
? Safety, Risk, Reliability and Quality (Q4, rank 178, percentile 7)
? Mechanical Engineering (Q4, rank 600, percentile 4)
? Source Id: 21101107127
? Author Ids: 37662376400;6503976905;56250522200;57892552100;15057843300
? Authoraffiliationids: 60025153;60025153;60025153;60083109;60025153
? Corresponding: Vernengo G.

15.

? Title: Numerical Approaches for Submarine Hydrodynamic Design and Performance Analysis
? Venue: Progress in Marine Science and Technology
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.3233/Pmst220035
? Scopus ID: 2-s2.0-85138153375
? Issn: 25430955
? eISSN: 25430963
? Volume: 6
? Pages: 279-286
? Authors: Gaggero Stefano; Piaggio Benedetto; Vernengo Giuliano; Villa Diego; Viviani Michele; Gualeni Paola
? Keywords: Computational Fluid Dynamics (CFD) | Free surface flow | Maneuvering | Resistance | Submarine
? Quartile:
2025:
? Safety, Risk, Reliability and Quality (Q4, rank 200, percentile 22)
? Ocean Engineering (Q4, rank 99, percentile 15)
? Mechanical Engineering (Q4, rank 640, percentile 13)
2022:
? Ocean Engineering (Q4, rank 91, percentile 9)
? Safety, Risk, Reliability and Quality (Q4, rank 178, percentile 7)
? Mechanical Engineering (Q4, rank 600, percentile 4)
? Source Id: 21101107127
? Author Ids: 6503976905;57204360929;37662376400;56250522200;58090077400;15057843300
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.

16.

? Title: A marine propeller design method based on two-fidelity data levels
? Venue: Applied Ocean Research
? Year: 2022
? Type: Journal
? Subtype: Article

? Citations: 21
? DOI: 10.1016/j.apor.2022.103156
? Scopus ID: 2-s2.0-85129274189
? Issn: 01411187
? Volume: 123
? Authors: Gaggero Stefano; Vernengo Giuliano; Villa Diego
? Keywords: E779A | Gaussian process | Multi-fidelity | Optimization | Propeller design
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2022:
? Ocean Engineering (Q1, rank 13, percentile 87)
? Source Id: 26776
? Author Ids: 6503976905;37662376400;56250522200
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero S.

17.

? Title: Modelling the hydrostatic stability characteristics of a self-aligning floating offshore wind turbine
? Venue: Proceedings in Marine Technology and Ocean Engineering
? Year: 2022
? Type: Book Series
? Subtype: Article
? Citations: 0
? Doi: 10.1201/9781003320289-51
? Scopus ID: 2-s2.0-85216990652
? Issn: 2638647x
? eISSN: 26386461
? Volume: 2
? Pages: 489-497
? Authors: Scicluna D.; Sant T.; Muscat-Fenech C. De Marco; Vernengo G.; Demirel Y. K.
? Quartile:
2025:
? Ocean Engineering (Q3, rank 73, percentile 37)
? Source Id: 21101270843
? Author Ids: 58033955000;9241517500;55940054200;37662376400;56044990600
? Authoraffiliationids: 60072651;60072651;60072651;60025153;60024724
? Corresponding: Scicluna D.

18.

? Title: Hydrodynamic Interactions Of Multiple Surface-Piercing Struts By Smoothed Particles Hydrodynamics
? Venue: Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering OMAE
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1115/Omae2022-81431
? Scopus ID: 2-s2.0-85140750900
? Volume: 7
? Authors: Vernengo Giuliano; De Marco Muscat-Fenech Claire; Demirel Yigit Kemal; Gaggero Stefano; Villa Diego
? Keywords: Breaking waves | Computational Fluid Dynamics (CFD) | Smoothed Particle Hydrodynamics (SPH) | Surface-piercing strut | Tandem struts

? Source Id: 91440
? Author Ids: 37662376400;55940054200;56044990600;6503976905;56250522200
? Authoraffiliationids: 60025153;60072651;60024724;60025153;60025153
? Corresponding: Vernengo G.

19.

? Title: A Vortex Lattice Method for the Hydrodynamic Solution of Lifting Bodies
Traveling Close and Across a Free Surface
? Venue: Wseas Transactions on Fluid Mechanics
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 3
? Doi: 10.37394/232013.2022.17.4
? Scopus ID: 2-s2.0-85130762174
? Issn: 17905087
? eISSN: 2224347X
? Volume: 17
? Pages: 39-48
? Authors: Solari Raffaele; Bagnerini Patrizia; Vernengo Giuliano
? Keywords: Boundary Element Method (BEM) | Free Surface | Hydrofoils | Planing
Surfaces | Vortex Lattice Method (VLM)
? Quartile:
2025:
? Computational Mechanics (Q3, rank 54, percentile 41)
? Fluid Flow and Transfer Processes (Q3, rank 59, percentile 40)
? Physics and Astronomy (all) (Q3, rank 158, percentile 36)
? Modeling and Simulation (Q3, rank 242, percentile 35)
? Ocean Engineering (Q3, rank 76, percentile 34)
2022:
? Computational Mechanics (Q3, rank 56, percentile 34)
? Ocean Engineering (Q3, rank 66, percentile 34)
? Fluid Flow and Transfer Processes (Q3, rank 61, percentile 34)
? Physics and Astronomy (all) (Q3, rank 160, percentile 33)
? Modeling and Simulation (Q4, rank 242, percentile 23)
? Source Id: 17700156004
? Author Ids: 57711513500;11240414400;37662376400
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Solari R.

20.

? Title: An effective mesh deformation approach for hull shape design by optimization
? Venue: Journal of Marine Science and Engineering
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 13
? DOI: 10.3390/jmse9101107
? Scopus ID: 2-s2.0-85117693519
? eISSN: 20771312
? Volume: 9
? Issue: 10
? Authors: Villa Diego; Fucas Francesco; Pralits Jan Oscar; Vernengo Giuliano; Gaggero
Stefano
? Keywords: CFD | Design by optimization | Free-form deformation | Mesh morphing |
Optimization | RANS | Subdivision surfaces

? Quartile:

2025:

? Ocean Engineering (Q1, rank 29, percentile 75)

? Civil and Structural Engineering (Q2, rank 110, percentile 73)

? Water Science and Technology (Q2, rank 77, percentile 72)

2021:

? Ocean Engineering (Q2, rank 42, percentile 57)

? Civil and Structural Engineering (Q2, rank 159, percentile 51)

? Water Science and Technology (Q3, rank 121, percentile 49)

? Source Id: 21100830140

? Author Ids: 56250522200;57215094740;6507362690;37662376400;6503976905

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Villa D.

21.

? Title: Influence of systematic hull shape variations on ship stability performances in waves

? Venue: Journal of Ship Research

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 13

? Doi: 10.5957/Josr.12190076

? Scopus ID: 2-s2.0-85116686946

? Issn: 00224502

? eISSN: 15420604

? Volume: 65

? Issue: 3

? Pages: 243-256

? Authors: Petacco Nicola; Vernengo Giuliano; Villa Diego; Coppede Antonio; Gualeni Paola

? Keywords: Design of experiments | Free-form deformation | Gaussian process | Second-generation intact stability criteria | Sensitivity analysis

? Quartile:

2025:

? Numerical Analysis (Q2, rank 37, percentile 59)

? Applied Mathematics (Q2, rank 273, percentile 59)

? Ocean Engineering (Q2, rank 57, percentile 51)

? Mechanical Engineering (Q3, rank 381, percentile 48)

? Civil and Structural Engineering (Q3, rank 231, percentile 44)

2021:

? Ocean Engineering (Q3, rank 50, percentile 49)

? Applied Mathematics (Q3, rank 303, percentile 48)

? Numerical Analysis (Q3, rank 41, percentile 46)

? Mechanical Engineering (Q3, rank 340, percentile 43)

? Civil and Structural Engineering (Q3, rank 207, percentile 36)

? Source Id: 25663

? Author Ids: 57193804322;37662376400;56250522200;57201546656;15057843300

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Petacco N.

22.

? Title: A study on the added resistance of a catamaran advancing in waves considering variations of both operating and geometric parameters

? Venue: Ships and Offshore Structures

? Year: 2021

? Type: Journal
? Subtype: Article
? Citations: 11
? Doi: 10.1080/17445302.2020.1727180
? Scopus ID: 2-s2.0-85079723758
? Issn: 17445302
? Volume: 16
? Issue: 4
? Pages: 334-352
? Authors: Vernengo Giuliano; Villa Diego; Bruzzone Dario; Bonfiglio Luca
? Keywords: Added resistance | boundary element method (BEM) | catamaran | near field method | seakeeping
? Quartile:
2025:
? Ocean Engineering (Q2, rank 33, percentile 71)
? Mechanical Engineering (Q2, rank 235, percentile 68)
2021:
? Mechanical Engineering (Q2, rank 203, percentile 66)
? Ocean Engineering (Q2, rank 34, percentile 65)
? Source Id: 19700186818
? Author Ids: 37662376400;56250522200;6602292559;55848582900
? Authoraffiliationids: 60025153;60025153;60025153;60022195
? Corresponding: Vernengo G.

23.

? Title: Parametric hull shape variations by Reduced Order Model based geometric transformation
? Venue: Ocean Engineering
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.1016/j.oceaneng.2020.107826
? Scopus ID: 2-s2.0-85090041988
? Issn: 00298018
? Volume: 216
? Authors: Villa Diego; Gaggero Stefano; Coppede Antonio; Vernengo Giuliano
? Keywords: Design Velocity (DV) | Free Form Deformation | Hull shape | Proper Orthogonal Decomposition (POD) | Reduced Order Model (ROM) | Subdivision Surface
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2020:
? Ocean Engineering (Q1, rank 9, percentile 91)
? Environmental Engineering (Q1, rank 29, percentile 80)
? Source Id: 28339
? Author Ids: 56250522200;6503976905;57201546656;37662376400
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Villa D.

24.

? Title: Design of Wake Equalizing Ducts using RANSE-based SBDO
? Venue: Applied Ocean Research
? Year: 2020
? Type: Journal

? Subtype: Article
? Citations: 30
? DOI: 10.1016/j.apor.2020.102087
? Scopus ID: 2-s2.0-85079873265
? Issn: 01411187
? Volume: 97
? Authors: Furcas Francesco; Vernengo Giuliano; Villa Diego; Gaggero Stefano
? Keywords: Energy saving devices (ESD) | Hydrodynamic shape optimization | Japab bulk carrier (JBC) | Reynolds averaged navier stokes (RANS) | Simulation based design optimization (SBDO) | Wake equalizing duct (WED)
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2020:
? Ocean Engineering (Q1, rank 16, percentile 83)
? Source Id: 26776
? Author Ids: 57215094740;37662376400;56250522200;6503976905
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Furcas F.

25.

? Title: Interactive design and variation of hull shapes: pros and cons of different CAD approaches
? Venue: International Journal on Interactive Design and Manufacturing
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.1007/s12008-019-00613-3
? Scopus ID: 2-s2.0-85074048259
? Issn: 19552513
? eISSN: 19552505
? Volume: 14
? Issue: 1
? Pages: 103-114
? Authors: Vernengo Giuliano; Villa Diego; Gaggero Stefano; Viviani Michele
? Keywords: CAD | Free form deformation | Fully parametric model | Sensitivity analysis | Ship design
? Quartile:
2025:
? Modeling and Simulation (Q1, rank 63, percentile 83)
? Industrial and Manufacturing Engineering (Q2, rank 107, percentile 73)
2020:
? Modeling and Simulation (Q1, rank 70, percentile 76)
? Industrial and Manufacturing Engineering (Q2, rank 88, percentile 73)
? Source Id: 12000154536
? Author Ids: 37662376400;56250522200;6503976905;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Vernengo G.

26.

? Title: A reduced order approach for optimal design of efficient marine propellers
? Venue: Ships and Offshore Structures
? Year: 2020
? Type: Journal
? Subtype: Article

? Citations: 38
? Doi: 10.1080/17445302.2019.1606877
? Scopus ID: 2-s2.0-85065142491
? Issn: 17445302
? Volume: 15
? Issue: 2
? Pages: 200-214
? Authors: Gaggero Stefano; Vernengo Giuliano; Villa Diego; Bonfiglio Luca
? Keywords: boundary element method | cavitation | multi-objective optimisation | Propeller | proper orthogonal decomposition | shape optimisation
? Quartile:
2025:
? Ocean Engineering (Q2, rank 33, percentile 71)
? Mechanical Engineering (Q2, rank 235, percentile 68)
2020:
? Ocean Engineering (Q2, rank 32, percentile 67)
? Mechanical Engineering (Q2, rank 203, percentile 66)
? Source Id: 19700186818
? Author Ids: 6503976905;37662376400;56250522200;55848582900
? Authoraffiliationids: 60025153;60025153;60025153;60022195
? Corresponding: Gaggero S.

27.

? Title: An efficient and robust approach to predict ship self-propulsion coefficients
? Venue: Applied Ocean Research
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 36
? DOI: 10.1016/j.apor.2019.101862
? Scopus ID: 2-s2.0-85071987215
? Issn: 01411187
? Volume: 92
? Authors: Villa Diego; Gaggero Stefano; Gaggero Tomaso; Tani Giorgio; Vernengo Giuliano; Viviani Michele
? Keywords: Actuator disk | KCS test case | RANS/BEM coupling | Reynolds average Navier-Stokes (RANS) | Self-propulsion coefficients
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2019:
? Ocean Engineering (Q1, rank 16, percentile 82)
? Source Id: 26776
? Author Ids: 56250522200;6503976905;55212255700;55355605100;37662376400;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Villa D.

28.

? Title: Hydrodynamic shape optimization by high fidelity CFD solver and Gaussian process based response surface method
? Venue: Applied Ocean Research
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 74
? DOI: 10.1016/j.apor.2019.05.026

? Scopus ID: 2-s2.0-85066879607
? Issn: 01411187
? Volume: 90
? Authors: Coppedè Antonio; Gaggero Stefano; Vernengo Giuliano; Villa Diego
? Keywords: Free form deformation (FFD) | Gaussian process (GP) | Hydrodynamic shape optimization | KRISO Container Ship (KCS) | Response surface method (RSM) | Reynolds averaged Navier Stokes (RANS)
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2019:
? Ocean Engineering (Q1, rank 16, percentile 82)
? Source Id: 26776
? Author Ids: 57201546656;6503976905;37662376400;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Coppedè A.

29.

? Title: A Computational framework to design optimally loaded supercavitating hydrofoils by differential evolution algorithm and a new viscous lifting line method
? Venue: Advances in Engineering Software
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 5
? DOI: 10.1016/j.advengsoft.2019.04.006
? Scopus ID: 2-s2.0-85064463723
? Issn: 09659978
? eISSN: 18735339
? Volume: 133
? Pages: 28-38
? Authors: Vernengo Giuliano; Bonfiglio Luca
? Keywords: Cavitation | Differential evolution | Supercavitating hydrofoil | Surface-piercing hydrofoil | Viscous lifting line
? Quartile:
2025:
? Engineering (all) (Q1, rank 17, percentile 95)
? Software (Q1, rank 44, percentile 91)
2019:
? Engineering (all) (Q1, rank 9, percentile 97)
? Software (Q1, rank 31, percentile 91)
? Source Id: 18089
? Author Ids: 37662376400;55848582900
? Authoraffiliationids: 60025153;60022195
? Corresponding: Vernengo G.

30.

? Title: SPH simulation of periodic wave breaking in the surf zone - A detailed fluid dynamic validation
? Venue: Ocean Engineering
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 25
? DOI: 10.1016/j.oceaneng.2019.02.013
? Scopus ID: 2-s2.0-85061733882

? Issn: 00298018
? Volume: 176
? Pages: 20-30
? Authors: Rota Roselli Riccardo Angelini; Vernengo Giuliano; Brizzolara Stefano; Guercio Roberto
? Keywords: Run-up | Smoothed Particle Hydrodynamics (SPH) | Surf-zone wave transformation | Waves breaking | Waves shoaling
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2019:
? Ocean Engineering (Q1, rank 12, percentile 87)
? Environmental Engineering (Q1, rank 32, percentile 76)
? Source Id: 28339
? Author Ids: 57200751981;37662376400;6603210760;6701539532
? Authoraffiliationids: 60032350-60157272;60025153;60157272;60032350
? Corresponding: Rota Roselli R.A.

31.

? Title: Smoothed particles hydrodynamics simulation of a U-tank in forced motion
? Venue: 6th International Conference on Particle Based Methods Fundamentals and Applications Particles 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Scopus ID: 2-s2.0-85101980893
? Pages: 806-815
? Authors: Papetti Aldo; Vernengo Giuliano; Gaggero Stefano; Villa Diego; Bonfiglio Luca
? Keywords: Hydrodynamics | Roll motion | Sloshing | Smoothed particles hydrodynamics (SPH) | U-tank
? Source Id: 21101039435
? Author Ids: 57201665706;37662376400;6503976905;56250522200;55848582900
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60022195
? Corresponding: Papetti A.

32.

? Title: Unsteady hydrodynamics of a vertical surface piercing strut by SPH simulations
? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Scopus ID: 2-s2.0-85079802981
? Issn: 10986189
? eISSN: 15551792
? Volume: 4
? Pages: 4991-4997
? Authors: Vernengo Giuliano; Roselli Riccardo Angelini Rota; Brizzolara Stefano; Guercio Roberto
? Keywords: CFD | Meshless methods | Smoothed Particle Hydrodynamics (SPH) | Surface Piercing Strut | Turbulent separation | Unsteady free surface flow
? Quartile:
2025:

? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)

? Ocean Engineering (Q4, rank 101, percentile 13)

? Mechanical Engineering (Q4, rank 650, percentile 11)

2019:

? Ocean Engineering (Q3, rank 68, percentile 25)

? Energy Engineering and Power Technology (Q4, rank 175, percentile 19)

? Mechanical Engineering (Q4, rank 478, percentile 18)

? Source Id: 77392

? Author Ids: 37662376400;57200751981;6603210760;6701539532

? Authoraffiliationids: 60025153;60032350;60157272;60032350

? Corresponding: Vernengo G.

33.

? Title: A data-driven probabilistic learning approach for the prediction of controllable pitch propellers performance

? Venue: 8th International Conference on Computational Methods in Marine Engineering

Marine 2019

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 9

? Scopus ID: 2-s2.0-85074034817

? Pages: 544-555

? Authors: Gaggero Stefano; Coppede Antonio; Villa Diego; Vernengo Giuliano; Bonfiglio Luca

? Keywords: Controllable pitch propeller | Gaussian process | Multi-fidelity | Uncertainty quantification

? Source Id: 21101039467

? Author Ids: 6503976905;57201546656;56250522200;37662376400;55848582900

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60022195

? Corresponding: Gaggero S.

34.

? Title: Improving SWATH seakeeping performance using multi-fidelity Gaussian process and Bayesian optimization

? Venue: Journal of Ship Research

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 38

? Doi: 10.5957/Josr.11170069

? Scopus ID: 2-s2.0-85060819959

? Issn: 00224502

? eISSN: 15420604

? Volume: 62

? Issue: 4

? Pages: 223-240

? Authors: Bonfiglio Luca; Perdikaris Paris; Vernengo Giuliano; De Medeiros Joˆˆo Seixas; Karniadakis George

? Keywords: 3D BEM | Gaussian processes | Machine learning | Seakeeping | Striptheory | Unconventional SWATH

? Quartile:

2025:

? Numerical Analysis (Q2, rank 37, percentile 59)

? Applied Mathematics (Q2, rank 273, percentile 59)

? Ocean Engineering (Q2, rank 57, percentile 51)

? Mechanical Engineering (Q3, rank 381, percentile 48)
 ? Civil and Structural Engineering (Q3, rank 231, percentile 44)
 2018:
 ? Numerical Analysis (Q1, rank 13, percentile 76)
 ? Applied Mathematics (Q1, rank 121, percentile 75)
 ? Ocean Engineering (Q2, rank 26, percentile 72)
 ? Civil and Structural Engineering (Q2, rank 85, percentile 71)
 ? Mechanical Engineering (Q2, rank 171, percentile 70)
 ? Source Id: 25663
 ? Author Ids: 55848582900;35194560500;37662376400;56421754000;55665002100
 ? Authoraffiliationids: 60022195;60022195-60102562;60025153;60022195;60022195-60011460
 ? Corresponding: Bonfiglio L.

35.

? Title: A combined approach based on Subdivision Surface and Free Form Deformation for smart ship hull form design and variation
 ? Venue: Ships and Offshore Structures
 ? Year: 2018
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 27
 ? Doi: 10.1080/17445302.2018.1457235
 ? Scopus ID: 2-s2.0-85045279847
 ? Issn: 17445302
 ? Volume: 13
 ? Issue: 7
 ? Pages: 769-778
 ? Authors: Copped' Antonio; Vernengo Giuliano; Villa Diego
 ? Keywords: Free Form Deformation | hull shape modelling | hull shape variation | Ship design | Subdivision Surface
 ? Quartile:
 2025:
 ? Ocean Engineering (Q2, rank 33, percentile 71)
 ? Mechanical Engineering (Q2, rank 235, percentile 68)
 2018:
 ? Ocean Engineering (Q2, rank 30, percentile 68)
 ? Mechanical Engineering (Q2, rank 199, percentile 66)
 ? Source Id: 19700186818
 ? Author Ids: 57201546656;37662376400;56250522200
 ? Authoraffiliationids: 60025153;60025153;60025153
 ? Corresponding: Copped' A.

36.

? Title: Logistics-based fleet design for complex transportation scenarios
 ? Venue: Ships and Offshore Structures
 ? Year: 2018
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 3
 ? Doi: 10.1080/17445302.2018.1454095
 ? Scopus ID: 2-s2.0-85044468567
 ? Issn: 17445302
 ? Volume: 13
 ? Issue: 7
 ? Pages: 734-749
 ? Authors: Gaggero Tomaso; Vernengo Giuliano; Parodi Marco; Rizzuto Enrico

? Keywords: compressed natural gas (CNG) | decision-making support | design of experiments (DoE) | fleet synthesis model (FSM) | logistics | Simulation-based design (SBD)

? Quartile:

2025:

? Ocean Engineering (Q2, rank 33, percentile 71)

? Mechanical Engineering (Q2, rank 235, percentile 68)

2018:

? Ocean Engineering (Q2, rank 30, percentile 68)

? Mechanical Engineering (Q2, rank 199, percentile 66)

? Source Id: 19700186818

? Author Ids: 55212255700;37662376400;57201356315;6602173744

? Authoraffiliationids: 60025153;60025153;60025153;60017293

? Corresponding: Gaggero T.

37.

? Title: Ensuring numerical stability of wave propagation by tuning model parameters using genetic algorithms and response surface methods

? Venue: Environmental Modelling and Software

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 55

? DOI: 10.1016/j.envsoft.2018.02.003

? Scopus ID: 2-s2.0-85042367772

? Issn: 13648152

? Volume: 103

? Pages: 62-73

? Authors: Rota Roselli Riccardo Angelini; Vernengo Giuliano; Altomare Corrado; Brizzolara Stefano; Bonfiglio Luca; Guercio Roberto

? Keywords: Non-dominated sorting genetic algorithm (NSGA-II) | Parameter identification. | Response surface method (RSM) | Smoothed particle hydrodynamics (SPH) | Wave propagation

? Quartile:

2025:

? Modeling and Simulation (Q1, rank 31, percentile 91)

? Ecological Modeling (Q1, rank 6, percentile 89)

? Software (Q1, rank 96, percentile 80)

? Environmental Engineering (Q2, rank 59, percentile 74)

2018:

? Environmental Engineering (Q1, rank 6, percentile 95)

? Ecological Modeling (Q1, rank 3, percentile 92)

? Software (Q1, rank 30, percentile 91)

? Source Id: 23295

? Author Ids: 57200751981;37662376400;55846959400;6603210760;55848582900;6701539532

? Authoraffiliationids:

60032350-60157272;60025153;60159376-60033316;60157272;60022195;60032350

? Corresponding: Rota Roselli R.A.

38.

? Title: Ship self-propulsion performance prediction by using OpenFOAM and different simplified propeller models

? Venue: Progress in Maritime Technology and Engineering Proceedings of the 4th International Conference on Maritime Technology and Engineering Martech 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper
? Citations: 13
? Doi: 10.1201/9780429505294-23
? Scopus ID: 2-s2.0-85060163315
? Pages: 195-206
? Authors: Gaggero S.; Gaggero T.; Tani G.; Vernengo G.; Viviani M.; Villa D.
? Source Id: 21100898005
? Author Ids: 6503976905;55212255700;55355605100;37662376400;58090077400;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.

39.

? Title: A study on the added resistance performance of catamarans in waves
? Venue: Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering OMAE
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1115/Omae2018-78144
? Scopus ID: 2-s2.0-85055447337
? Volume: 11A
? Authors: Ageno Emanuela; Bonfiglio Luca; Bruzzzone Dario; Vernengo Giuliano; Villa Diego
? Source Id: 91440
? Author Ids: 56737265100;55848582900;6602292559;37662376400;56250522200
? Authoraffiliationids: 60025153;60022195;60025153;60025153;60025153
? Corresponding: Ageno E.

40.

? Title: Sensitivity analysis of impact loads by CFD solvers for structural FEM computation on ship structures
? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Scopus ID: 2-s2.0-85053478087
? Issn: 10986189
? eISSN: 15551792
? Volume: 2018-June
? Pages: 521-526
? Authors: Gaggero Stefano; Gaggero Tomaso; Gaiotti Marco; Ghelardi Stefano; Vernengo Giuliano; Villa Diego
? Keywords: Finite Element Method (FEM) | Slamming | Smoothed Particle Hydrodynamics (SPH) | Unsteady Reynolds Averaged Navier Stokes Equations (URANSE)
? Quartile:
2025:
? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)
? Ocean Engineering (Q4, rank 101, percentile 13)
? Mechanical Engineering (Q4, rank 650, percentile 11)
2018:
? Ocean Engineering (Q3, rank 64, percentile 31)
? Energy Engineering and Power Technology (Q3, rank 146, percentile 28)
? Mechanical Engineering (Q4, rank 442, percentile 24)
? Source Id: 77392

? Author Ids: 6503976905;55212255700;55200599100;56030081700;37662376400;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.

41.

? Title: Holistic modeling of the global propulsion energy index in waves for small craft
? Venue: International Journal of Offshore and Polar Engineering
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 7
? DOI: 10.17736/ijope.2017.mk54
? Scopus ID: 2-s2.0-85041485618
? Issn: 10535381
? Volume: 27
? Issue: 4
? Pages: 442-447
? Authors: Martelli Michele; Vernengo Giuliano; Bruzzzone Dario; Notti Emilio
? Keywords: Added resistance | Boundary element method (BEM) | Decision support system | Energy efficiency | Fishery | Fuel consumption
? Quartile:
2025:
? Ocean Engineering (Q3, rank 77, percentile 34)
? Mechanical Engineering (Q3, rank 487, percentile 33)
? Civil and Structural Engineering (Q3, rank 294, percentile 29)
2017:
? Mechanical Engineering (Q3, rank 349, percentile 39)
? Ocean Engineering (Q3, rank 57, percentile 39)
? Civil and Structural Engineering (Q3, rank 181, percentile 36)
? Source Id: 20452
? Author Ids: 55521641400;37662376400;6602292559;56045283900
? Authoraffiliationids: 60025153;60025153;60025153;60007525
? Corresponding: Martelli M.

42.

? Title: Risk-adaptive set-based design and applications to shaping a hydrofoil
? Venue: Journal of Mechanical Design
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 30
? Doi: 10.1115/1.4037623
? Scopus ID: 2-s2.0-85028608407
? Issn: 10500472
? Volume: 139
? Issue: 10
? Authors: Royset J. O.; Bonfiglio L.; Vernengo G.; Brizzolara S.
? Quartile:
2025:
? Computer Graphics and Computer-Aided Design (Q1, rank 21, percentile 84)
? Mechanical Engineering (Q1, rank 120, percentile 83)
? Mechanics of Materials (Q1, rank 84, percentile 79)
? Computer Science Applications (Q1, rank 215, percentile 78)
2017:
? Mechanical Engineering (Q1, rank 82, percentile 85)

? Mechanics of Materials (Q1, rank 57, percentile 83)
? Computer Graphics and Computer-Aided Design (Q1, rank 12, percentile 83)
? Computer Science Applications (Q1, rank 119, percentile 79)
? Source Id: 20979
? Author Ids: 6602188128;55848582900;37662376400;6603210760
? Authoraffiliationids: 60033012;60140949;60140949;60157272
? Corresponding: Royset J.O.

43.

? Title: Numerical investigation on the hydrodynamic performance of fast SWATHs with optimum canted struts arrangements
? Venue: Applied Ocean Research
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 37
? DOI: 10.1016/j.apor.2017.01.009
? Scopus ID: 2-s2.0-85009174477
? Issn: 01411187
? Volume: 63
? Pages: 76-89
? Authors: Vernengo Giuliano; Brizzolara Stefano
? Keywords: Boundary Element Method (BEM) | Canted multi-struts | Full parametric shape model | Genetic algorithms | Multi-objective optimization | Unconventional Small Waterplane Area Twin Hull (SWATH) | Wave resistance
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2017:
? Ocean Engineering (Q1, rank 18, percentile 81)
? Source Id: 26776
? Author Ids: 37662376400;6603210760
? Authoraffiliationids: 60025153;60157272
? Corresponding: Vernengo G.

44.

? Title: Multi-fidelity Bayesian optimization of SWATH vessels for improving Seakeeping Performance
? Venue: Sname Maritime Convention Smc 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Scopus ID: 2-s2.0-85084944090
? Authors: Bonfiglio Luca; Perdikaris Paris; Vernengo Giuliano; De Medeiros Joˆo Seixas; Karniadakis George
? Keywords: 3D BEM | Gaussian processes | Machine learning | Seakeeping | Strip-theory | Unconventional SWATH
? Source Id: 21100979349
? Author Ids: 55848582900;35194560500;37662376400;56421754000;55665002100
? Authoraffiliationids: 60022195;60022195-60011460;60025153;60022195;60022195-60011460
? Corresponding: Bonfiglio L.

45.

? Title: Systematic analysis of mesh and meshless cfd methods for water impact problems
? Venue: 7th International Conference on Computational Methods in Marine Engineering Marine 2017

- ? Year: 2017
 ? Type: Conference Proceeding
 ? Subtype: Conference Paper
 ? Citations: 6
 ? Scopus ID: 2-s2.0-85045687600
 ? Volume: 2017-May
 ? Pages: 568-582
 ? Authors: Bonfiglio Luca; Gaggero Stefano; Papetti Aldo; Vernengo Giuliano; Villa Diego
 ? Keywords: Free Surface Deformation | Impact Forces | Slamming | Smoothed Particle Hydrodynamics (SPH) | Unsteady Reynolds Averaged Navier Stokes (URANS) | Violent Impact Hydrodynamics
 ? Source Id: 21100857769
 ? Author Ids: 55848582900;6503976905;57201665706;37662376400;56250522200
 ? Authoraffiliationids: 60022195;60025153;60025153;60025153;60025153
 ? Corresponding: Bonfiglio L.
- 46.
- ? Title: On the roll motion prediction of high speed multi-hull vessels
 ? Venue: Proceedings of the International Offshore and Polar Engineering Conference
 ? Year: 2017
 ? Type: Conference Proceeding
 ? Subtype: Conference Paper
 ? Citations: 5
 ? Scopus ID: 2-s2.0-85038961927
 ? Issn: 10986189
 ? eISSN: 15551792
 ? Pages: 964-969
 ? Authors: Apollonio Claudio Maria; Vernengo Giuliano; Bonfiglio Luca; Brizzolara Stefano; Bruzzzone Dario
 ? Keywords: Boundary Element Method (BEM) | Lateral Motions | Multi-hulls | Seakeeping | Viscous corrections
 ? Quartile:
 2025:
 ? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)
 ? Ocean Engineering (Q4, rank 101, percentile 13)
 ? Mechanical Engineering (Q4, rank 650, percentile 11)
 2017:
 ? Energy Engineering and Power Technology (Q3, rank 141, percentile 31)
 ? Ocean Engineering (Q3, rank 67, percentile 28)
 ? Mechanical Engineering (Q3, rank 426, percentile 26)
 ? Source Id: 77392
 ? Author Ids: 57200040085;37662376400;55848582900;6603210760;6602292559
 ? Authoraffiliationids: 60025153;60025153;60140949;60157272;60025153
 ? Corresponding: Apollonio C.M.
- 47.
- ? Title: Supercavitating three-dimensional hydrofoil analysis by viscous lifting-line approach
 ? Venue: AIAA Journal
 ? Year: 2017
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 23
 ? Doi: 10.2514/1.J055504
 ? Scopus ID: 2-s2.0-85037092463

? Issn: 00011452
? Volume: 55
? Issue: 12
? Pages: 4127-4141
? Authors: Vernengo G.; Bonfiglio L.; Brizzolara S.
? Quartile:
2025:
? Aerospace Engineering (Q1, rank 26, percentile 84)
2017:
? Aerospace Engineering (Q1, rank 16, percentile 86)
? Source Id: 29964
? Author Ids: 37662376400;55848582900;6603210760
? Authoraffiliationids: 60022195-60140949-60025153;60022195-60140949;60027090-119868549
? Corresponding: Vernengo G.

48.

? Title: Physics-based design by optimization of unconventional supercavitating hydrofoils
? Venue: Journal of Ship Research
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 30
? Doi: 10.5957/Josr.60.4.150074
? Scopus ID: 2-s2.0-84996969461
? Issn: 00224502
? eISSN: 15420604
? Volume: 60
? Issue: 4
? Pages: 187-202
? Authors: Vernengo Giuliano; Bonfiglio Luca; Gaggero Stefano; Brizzolara Stefano
? Keywords: Boundary element method | Design by optimization | Differential evolution algorithm | Multiphase reynold-averaged navier stokes | Supercavitating hydrofoils
? Quartile:
2025:
? Numerical Analysis (Q2, rank 37, percentile 59)
? Applied Mathematics (Q2, rank 273, percentile 59)
? Ocean Engineering (Q2, rank 57, percentile 51)
? Mechanical Engineering (Q3, rank 381, percentile 48)
? Civil and Structural Engineering (Q3, rank 231, percentile 44)
2016:
? Civil and Structural Engineering (Q2, rank 79, percentile 69)
? Mechanical Engineering (Q2, rank 172, percentile 68)
? Applied Mathematics (Q2, rank 129, percentile 68)
? Ocean Engineering (Q2, rank 28, percentile 68)
? Numerical Analysis (Q2, rank 16, percentile 64)
? Source Id: 25663
? Author Ids: 37662376400;55848582900;6503976905;6603210760
? Authoraffiliationids: 60140949;60140949;60025153;60140949
? Corresponding: Vernengo G.

49.

? Title: Simulation based design of a fleet of ships under power and capacity variations
? Venue: Applied Ocean Research
? Year: 2016

- ? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.1016/j.apor.2016.09.003
? Scopus ID: 2-s2.0-84991677935
? Issn: 01411187
? Volume: 61
? Pages: 1-15
? Authors: Vernengo Giuliano; Gaggero Tomaso; Rizzuto Enrico
? Keywords: Added resistance in waves | Compressed Natural Gas (CNG) | Fleet design | Multi-criteria decision making | Ship Synthesis Model (SSM) | Simulation Based Design (SBD) | Uncertainty quantification
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2016:
? Ocean Engineering (Q1, rank 18, percentile 79)
? Source Id: 26776
? Author Ids: 37662376400;55212255700;6602173744
? Authoraffiliationids: 60025153;60025153;60017293
? Corresponding: Vernengo G.
50.
? Title: Resistance and seakeeping numerical performance analyses of a semi-small waterplane area twin hull at medium to high speeds
? Venue: Journal of Marine Science and Application
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 15
? DOI: 10.1007/s11804-016-1343-0
? Scopus ID: 2-s2.0-84978023701
? Issn: 16719433
? Volume: 15
? Issue: 1
? Pages: 1-7
? Authors: Vernengo Giuliano; Bruzzone Dario
? Keywords: boundary element method | rankine source distribution | response amplitude operators | seakeeping | semi-SWATH | ship resistance | small waterplane area twin hull (SWATH)
? Quartile:
2025:
? Ocean Engineering (Q2, rank 39, percentile 66)
? Mechanical Engineering (Q2, rank 253, percentile 65)
2016:
? Ocean Engineering (Q3, rank 46, percentile 47)
? Mechanical Engineering (Q3, rank 297, percentile 45)
? Source Id: 5400152711
? Author Ids: 37662376400;6602292559
? Authoraffiliationids: 60025153;60025153
? Corresponding: Vernengo G.
51.
? Title: Material selection for the gas containment system of a compressed natural gas carrier fleet
? Venue: Applied Ocean Research

? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 4
? DOI: 10.1016/j.apor.2015.11.005
? Scopus ID: 2-s2.0-84950279126
? Issn: 01411187
? Volume: 55
? Pages: 37-47
? Authors: Gaiotti M.; Rizzo C. M.; Rizzuto E.; Vernengo G.
? Keywords: Compressed natural gas (CNG) | Fiber reinforced plastic (FRP) | Finite element method (FEM) | Multi-objective decision making environment | Ship synthesis model (SSM)
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2016:
? Ocean Engineering (Q1, rank 18, percentile 79)
? Source Id: 26776
? Author Ids: 55200599100;15072981100;6602173744;37662376400
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaiotti M.

52.

? Title: A three-dimensional vortex method for the hydrodynamic solution of planing cambered dihedral surfaces
? Venue: Engineering Analysis with Boundary Elements
? Year: 2016
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.1016/j.enganabound.2015.10.008
? Scopus ID: 2-s2.0-84947244695
? Issn: 09557997
? Volume: 63
? Pages: 15-29
? Authors: Brizzolara Stefano; Vernengo Giuliano
? Keywords: Boundary Element Method (BEM) | Cambered Dihedral Planing Hulls | Dynamic Lift and Induced Resistance | High Speed Planing Hulls | Hydrodynamic Performance Analysis | Vortex Lattice Method (VLM)
? Quartile:
2025:
? Analysis (Q1, rank 3, percentile 98)
? Computational Mathematics (Q1, rank 11, percentile 94)
? Applied Mathematics (Q1, rank 35, percentile 94)
? Engineering (all) (Q1, rank 46, percentile 86)
2016:
? Analysis (Q1, rank 11, percentile 91)
? Engineering (all) (Q1, rank 44, percentile 83)
? Applied Mathematics (Q1, rank 76, percentile 81)
? Computational Mathematics (Q1, rank 23, percentile 80)
? Source Id: 20307
? Author Ids: 6603210760;37662376400
? Authoraffiliationids: 60022195;60022195
? Corresponding: Brizzolara S.

53.

? Title: Hydrodynamics performance of high speed multi-hulls in waves
? Venue: Maritime Transportation and Harvesting of Sea Resources
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Scopus ID: 2-s2.0-85055454776
? Volume: 1
? Pages: 493-500
? Authors: Vernengo G.; Apollonio C. M.; Bruzzone D.; Bonfiglio L.; Brizzolara S.
? Source Id: 21100886381
? Author Ids: 37662376400;57200040085;6602292559;55848582900;6603210760
? Authoraffiliationids: 60025153;60025153;60025153;60022195;60157272
? Corresponding: Vernengo G.

54.

? Title: A hybrid RANSE - strip theory method for prediction of ship motions
? Venue: Proceedings of 3rd International Conference on Maritime Technology and Engineering Martech 2016
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 10
? DOI: 10.1201/b21890-35
? Scopus ID: 2-s2.0-85016826758
? Volume: 1
? Pages: 241-250
? Authors: Bonfiglio L.; Vernengo G.; Brizzolara S.; Bruzzone D.
? Source Id: 21100804421
? Author Ids: 55848582900;37662376400;6603210760;6602292559
? Authoraffiliationids: 60022195;60022195-60025153;60022195;60025153
? Corresponding: Bonfiglio L.

55.

? Title: Overall efficiency assessment of a trawler propulsion system based on hydrodynamic performance computations
? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Scopus ID: 2-s2.0-84987917208
? Issn: 10986189
? eISSN: 15551792
? Volume: 2016-January
? Pages: 875-882
? Authors: Martelli Michele; Vernengo Giuliano; Bruzzone Dario; Notti Emilio
? Keywords: Added resistance in waves | Boundary element method (BEM) | Decision support system | Energy efficiency | Fishery | Fuel consumption
? Quartile:
2025:
? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)
? Ocean Engineering (Q4, rank 101, percentile 13)
? Mechanical Engineering (Q4, rank 650, percentile 11)
2016:

? Energy Engineering and Power Technology (Q3, rank 128, percentile 32)
? Ocean Engineering (Q3, rank 63, percentile 28)
? Mechanical Engineering (Q3, rank 395, percentile 27)
? Source Id: 77392
? Author Ids: 55521641400;37662376400;6602292559;56045283900
? Authoraffiliationids: 60025153;60025153;60025153;60007525
? Corresponding: Martelli M.

56.

? Title: Experimental and numerical investigation of draught and trim effects on the energy efficiency of a displacement mono-hull
? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Scopus ID: 2-s2.0-84987898825
? Issn: 10986189
? eISSN: 15551792
? Volume: 2016-January
? Pages: 857-863
? Authors: Altosole Marco; Figari Massimo; Ferrari Alberto; Bruzzzone Dario; Vernengo Giuliano
? Keywords: Decision support system | Energy efficiency | Fuel consumption | Scale model tests | Trim | Uncertainty analysis
? Quartile:
2025:
? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)
? Ocean Engineering (Q4, rank 101, percentile 13)
? Mechanical Engineering (Q4, rank 650, percentile 11)
2016:
? Energy Engineering and Power Technology (Q3, rank 128, percentile 32)
? Ocean Engineering (Q3, rank 63, percentile 28)
? Mechanical Engineering (Q3, rank 395, percentile 27)
? Source Id: 77392
? Author Ids: 13006187800;6507282370;57199836867;6602292559;37662376400
? Corresponding: Altosole M.

57.

? Title: Comparative performance of optimum high speed SWATH and Semi-SWATH in calm water and in waves
? Venue: Sname 5th World Maritime Technology Conference Wmtc 2015
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.5957/Wmtc-2015-258
? Scopus ID: 2-s2.0-85117501131
? Authors: Brizzolara S.; Vernengo G.; Bonfiglio L.; Bruzzzone D.
? Keywords: BEM | High Speed | Seakeeping | Semi-SWATH | SWATH | Unconventional Hulls | URANSE | Wave Resistance
? Source Id: 21101062316
? Author Ids: 6603210760;37662376400;55848582900;6602292559
? Authoraffiliationids: 60140949;60140949-60025153;60140949;60025153
? Corresponding: Brizzolara S.

58.

? Title: Comparative performance of optimum high speed SWATH and Semi-SWATH in calm water and in waves
 ? Venue: Transactions Society of Naval Architects and Marine Engineers
 ? Year: 2015
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 13
 ? Scopus ID: 2-s2.0-84996843206
 ? Issn: 00811661
 ? Volume: 123
 ? Pages: 273-286
 ? Authors: Brizzolara S.; Vernengo G.; Bonfiglio L.; Bruzzzone D.
 ? Keywords: BEM | High speed | Seakeeping | Semi-SWATH | SWATH | Unconventional hulls | URANSE | Wave resistance
 ? Quartile:
 2015:
 ? Ocean Engineering (Q3, rank 65, percentile 27)
 ? Source Id: 27362
 ? Author Ids: 6603210760;37662376400;55848582900;6602292559
 ? Authoraffiliationids: 60140949;60140949-60025153;60140949;60025153
 ? Corresponding: Brizzolara S.

59.

? Title: Resistance and seakeeping optimization of a fast multihull passenger ferry
 ? Venue: International Journal of Offshore and Polar Engineering
 ? Year: 2015
 ? Type: Journal
 ? Subtype: Article
 ? Citations: 25
 ? Scopus ID: 2-s2.0-84979917736
 ? Issn: 10535381
 ? Volume: 25
 ? Issue: 1
 ? Pages: 26-34
 ? Authors: Vernengo Giuliano; Brizzolara Stefano; Bruzzzone Dario
 ? Keywords: Multihull ferry | Multiobjective optimization | Parametric hull modeling | Pareto frontier | Seakeeping | Semi-SWATH | Wave resistance
 ? Quartile:
 2025:
 ? Ocean Engineering (Q3, rank 77, percentile 34)
 ? Mechanical Engineering (Q3, rank 487, percentile 33)
 ? Civil and Structural Engineering (Q3, rank 294, percentile 29)
 2015:
 ? Ocean Engineering (Q2, rank 30, percentile 66)
 ? Civil and Structural Engineering (Q2, rank 89, percentile 63)
 ? Mechanical Engineering (Q2, rank 204, percentile 61)
 ? Source Id: 20452
 ? Author Ids: 37662376400;6603210760;6602292559
 ? Authoraffiliationids: 60022195;60022195;60025153
 ? Corresponding: Vernengo G.

60.

? Title: Significance of parametric hull form definition on hydrodynamic performance optimization
 ? Venue: Marine 2015 Computational Methods in Marine Engineering Vi
 ? Year: 2015

? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 14
? Scopus ID: 2-s2.0-84938823078
? Pages: 254-265
? Authors: Brizzolara S.; Vernengo G.; Pasquinucci C. A.; Harries S.
? Keywords: Boundary element method (BEM) | Free form deformation (FFD) | Full parametric modeling | Hydrodynamic shape optimization | Ship resistance
? Source Id: 21100403413
? Author Ids: 6603210760;37662376400;56769612600;13404262400
? Authoraffiliationids: 60022195;60022195;60306324;60306324
? Corresponding: Brizzolara S.

61.

? Title: Ship synthesis model for the preliminary design of a fleet of compressed natural gas carriers
? Venue: Ocean Engineering
? Year: 2014
? Type: Journal
? Subtype: Article
? Citations: 17
? DOI: 10.1016/j.oceaneng.2014.08.012
? Scopus ID: 2-s2.0-84907313657
? Issn: 00298018
? Volume: 89
? Pages: 189-199
? Authors: Vernengo Giuliano; Rizzuto Enrico
? Keywords: Added resistance | Compressed natural gas | Integrated design | Preliminary design | Ship synthesis model
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2014:
? Ocean Engineering (Q1, rank 14, percentile 84)
? Environmental Engineering (Q2, rank 28, percentile 72)
? Source Id: 28339
? Author Ids: 37662376400;6602173744
? Authoraffiliationids: 60025153;60025153
? Corresponding: Vernengo G.

62.

? Title: Hydrodynamic design of a fast semi-SWATH passenger ship for littoral applications: An automatic parametric optimization approach
? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2014
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-84906911033
? Issn: 10986189
? eISSN: 15551792
? Pages: 787-795
? Authors: Vernengo Giuliano; Brizzolara Stefano; Bruzzone Dario
? Keywords: Multi-objective optimization | Parametric hull modeling | Pareto | Seakeeping | Semi-SWATH | Wave resistance

? Quartile:

2025:

? Energy Engineering and Power Technology (Q4, rank 273, percentile 16)

? Ocean Engineering (Q4, rank 101, percentile 13)

? Mechanical Engineering (Q4, rank 650, percentile 11)

2014:

? Energy Engineering and Power Technology (Q3, rank 97, percentile 44)

? Ocean Engineering (Q3, rank 52, percentile 41)

? Mechanical Engineering (Q3, rank 327, percentile 37)

? Source Id: 77392

? Author Ids: 37662376400;6603210760;6602292559

? Authoraffiliationids: 60022195-60025153;60022195;60025153

? Corresponding: Vernengo G.

63.

? Title: Concept design and hydrodynamic optimization of an innovative SWATH USV by CFD methods

? Venue: Ocean Dynamics

? Year: 2012

? Type: Journal

? Subtype: Article

? Citations: 50

? DOI: 10.1007/s10236-011-0471-y

? Scopus ID: 2-s2.0-84861095876

? Issn: 16167341

? eISSN: 16167228

? Volume: 62

? Issue: 2

? Pages: 227-237

? Authors: Brizzolara Stefano; Curtin Tom; Bovio Marco; Vernengo Giuliano

? Keywords: Autonomous vehicle | CFD numerical simulations | Hydrodynamic optimization | SWATH

? Quartile:

2025:

? Oceanography (Q2, rank 72, percentile 53)

2012:

? Oceanography (Q2, rank 33, percentile 70)

? Source Id: 28338

? Author Ids: 6603210760;7003648764;56115165300;37662376400

? Authoraffiliationids: 60025153;112830548;102052067;60025153

? Corresponding: Brizzolara S.

64.

? Title: A procedure for the preliminary selection of the main characteristics of a fleet of ships for a given trade

? Venue: Nav International Conference on Ship and Shipping Research

? Year: 2012

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Scopus ID: 2-s2.0-85052513517

? Issn: 22828397

? Volume: 0

? Authors: Vernengo Giuliano; Rizzuto Enrico; Longo Roberto; Nigro Angelo Lo

? Source Id: 21100875435

? Author Ids: 37662376400;6602173744;57203640889;57203641080

? Authoraffiliationids: 60025153;60025153;106592833;106592833

? Corresponding: Vernengo G.

65.

? Title: Automatic optimization computational method for unconventional S.W.A.T.H. ships resistance

? Venue: International Journal of Mathematical Models and Methods in Applied Sciences

? Year: 2011

? Type: Journal

? Subtype: Article

? Citations: 30

? Scopus ID: 2-s2.0-79960364753

? Issn: 19980140

? Volume: 5

? Issue: 5

? Pages: 882-889

? Authors: Brizzolara Stefano; Vernengo Giuliano

? Keywords: B.E.M. | Genetic Algorithms | Optimization | Parametric Modeling | S.W.A.T.H. | Wave Resistance

? Quartile:

2011:

? Applied Mathematics (Q4, rank 301, percentile 21)

? Modeling and Simulation (Q4, rank 161, percentile 20)

? Computational Mathematics (Q4, rank 88, percentile 19)

? Mathematical Physics (Q4, rank 37, percentile 15)

? Source Id: 18100156703

? Author Ids: 6603210760;37662376400

? Authoraffiliationids: 60025153;60025153

? Corresponding: Brizzolara S.

66.

? Title: Automatic computer driven optimization of innovative hull forms for marine vehicles

? Venue: 10th Wseas International Conference on Applied Computer and Applied Computational Science Acacos 11

? Year: 2011

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 16

? Scopus ID: 2-s2.0-79956073082

? Pages: 273-278

? Authors: Brizzolara Stefano; Vernengo Giuliano

? Keywords: BEM method | Genetic algorithms | Optimization | Parametric modeling | SWATH | Wave resistance

? Source Id: 19800188054

? Author Ids: 6603210760;37662376400

? Authoraffiliationids: 60025153;60025153

? Corresponding: Brizzolara S.

67.

? Title: Automatic parametric hull form optimization of fast naval vessels

? Venue: 11th International Conference on Fast Sea Transportation Fast 2011 Proceedings

? Year: 2011

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 24

? Scopus ID: 2-s2.0-84922814640

? Pages: 294-301

? Authors: Biliotti Iacopo; Brizzolara Stefano; Viviani Michele; Vernengo Giuliano; Ruscelli Danilo; Galliussi Mauro; Guadalupi Domenico; Manfredini Andrea

? Keywords: Fast naval vessels | Hull parametric modeling | Hydrodynamic optimization | Model tests | Wave resistance

? Source Id: 21100372540

? Author Ids: 56516908300;6603210760;58090077400;37662376400;25926060700;55053264000;55603310800;55533816000

? Authoraffiliationids:

60025153;60025153;60025153;60025153;60122238;115007327;115007327;115007327

? Corresponding: Biliotti I.

68.

? Title: Hydrodynamic design of a family of hybrid SWATH unmanned surface vehicles

? Venue: 11th International Conference on Fast Sea Transportation Fast 2011 Proceedings

? Year: 2011

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 18

? Scopus ID: 2-s2.0-84921356913

? Pages: 821-828

? Authors: Brizzolara Stefano; Bovio Marco; Federici Alessandro; Vernengo Giuliano

? Keywords: CFD | Fast SWATH | Ground effects | Supercavitating hydrofoils | Unmanned surface vehicles (USV)

? Source Id: 21100372540

? Author Ids: 6603210760;56115165300;56241933100;37662376400

? Authoraffiliationids: 60025153-60022195;60025153;115007286;60025153

? Corresponding: Brizzolara S.