

VILLA DIEGO

Overview

- ? Unit: NAV
- ? Role: Professore associato
- ? Grade: Prof.Associato Legge 240/10 - t.pieno - classe 2
- ? SSD: IIND-01/A (Architettura navale)
- ? Scopus ID: 56250522200
- ? Unige Id: 700969
- ? Retrieved at: 2025-11-14T15:13:45.294770

Contact

- ? Email: diego.villa@unige.it
- ? Phone: +39 010 33 52345
- ? Page: <https://rubrica.unige.it/personale/UkNHUIxg>
- ? Locations: Villa Cambiaso - padiglioni (ED161450103), 1° piano, US161450103.I.025

Career

- ? Ar, 2013-03-01 ? 2014-10-31
- ? Cb, 2013-09-23 ? 2014-10-31
- ? Rd, 2014-11-01 ? 2021-09-30
- ? Pa, 2021-10-01 ? 2222-02-02

Responsibilities

- ? Title: Componente del Consiglio della Scuola
 - ? Unit: Scuola politecnica
 - ? Period: 2024-11-01 ? 2027-10-31
- ? Title: Componente della Commissione paritetica docenti-studenti di scuola
 - ? Unit: Scuola politecnica
 - ? Period: 2025-11-01 ? 2027-10-31

? Title: Membro della Giunta di dipartimento

- ? Unit: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN
- ? Period: 2024-11-01 ? 2027-10-31

Teaching

2025

- ? Architettura Navale Numerica (84419), Lm-34 - Ingegneria Navale
- ? Architettura Navale Sperimentale (115628), Lm-34 - Ingegneria Navale
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Geometria Dei Galleggianti (90571), L-9 R - Ingegneria Navale
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design

2024

- ? Geometria Dei Galleggianti (90571), L-9 - Ingegneria Navale
- ? Architettura Navale Numerica (84419), Lm-34 - Ingegneria Navale
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Ship Stability (101123), L-28 - Maritime Science And Technology

2023

- ? Geometria Dei Galleggianti (90571), L-9 - Ingegneria Navale
- ? Architettura Navale Numerica (84419), Lm-34 - Ingegneria Navale
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design
- ? Ship Stability (101123), L-28 - Maritime Science And Technology

2022

- ? Geometria Dei Galleggianti (90571), L-9 - Ingegneria Navale
- ? Architettura Navale Numerica (84419), Lm-34 - Ingegneria Navale
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design

2021

- ? Geometria Dei Galleggianti (90571), L-9 - Ingegneria Navale
- ? Architettura Navale Numerica (84419), Lm-34 - Ingegneria Navale
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design

2020

- ? Geometria Dei Galleggianti (90571), L-9 - Ingegneria Navale
- ? Numerical Marine Hydrodynamics (66174), Lm-34 - Yacht Design
- ? Yacht Dynamics (66399), Lm-34 - Yacht Design

Scopus Metrics

- ? absolute; Docs: 103; Journals: 54; Conferences: 47; Citations: 1371; H-index: 21
- ? 15 years (2010-2025); Docs: 102; Journals: 54; Conferences: 46; Citations: 1368; H-index: 21
- ? 10 years (2015-2025); Docs: 90; Journals: 52; Conferences: 37; Citations: 1163; H-index: 21
- ? 05 years (2020-2025); Docs: 49; Journals: 34; Conferences: 14; Citations: 470; H-index: 14

Scopus Products

1.

- ? Title: A 6-DOF submarine manoeuvrability prediction code - Part I: Development and validation
- ? Venue: Ocean Engineering
- ? Year: 2025
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 0
- ? DOI: 10.1016/j.oceaneng.2025.122718
- ? Scopus ID: 2-s2.0-105018119374
- ? ISSN: 00298018
- ? Volume: 342
- ? Authors: Bertini Lorenzo; Villa Diego; Viviani Michele; Mazzarello Giorgio; Carmone Francesco; Piaggio Benedetto
- ? Keywords: Control and stability | Hydrodynamics | Manoeuvrability | Rudder | Stern planes | Submarines | Underwater vehicles
- ? Quartile:
- 2025:

? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
? Source Id: 28339
? Author Ids: 60102798400;56250522200;58090077400;57892552100;60130828100;57204360929
? Authoraffiliationids: 60025153;60025153;60025153;60083109;60083109;60025153
? Corresponding: Bert^ L.

2.

? Title: Analyses of Different Approaches for Virtual Towing Tank Uncertainty Assessment
? Venue: Journal of Marine Science and Engineering
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.3390/jmse13101882
? Scopus ID: 2-s2.0-105020159552
? eISSN: 20771312
? Volume: 13
? Issue: 10
? Authors: Bozzo Simone; Villa Diego; Mancini Simone
? Keywords: CFD | EFD | uncertainty | Verification & Validation | virtual towing tank
? 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)
? Source Id: 21100830140
? Author Ids: 58713211300;56250522200;56769107100
? Authoraffiliationids: 112822111-60025153;60025153;60017293
? Corresponding: Bozzo S.

3.

? Title: The CFD Potentially on the AUV Hydrodynamic Design
? Venue: Progress in Marine Science and Technology
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.3233/Pmst250080
? Scopus ID: 2-s2.0-105016242182
? Issn: 25430955
? eISSN: 25430963
? Volume: 10
? Pages: 663-673
? Authors: Villa Diego; Gaggero Stefano
? Keywords: AUV design | Manoeuvrability | RANS code
? 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: 56250522200;6503976905
? Authoraffiliationids: 60025153;60025153
? Corresponding: Villa D.

4.

? Title: Development of a CFD Based Submarine Manoeuvrability Prediction Code
? Venue: Progress in Marine Science and Technology
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.3233/Pmst250034
? Scopus ID: 2-s2.0-105016237135
? Issn: 25430955
? eISSN: 25430963
? Volume: 10
? Pages: 262-272
? Authors: Bert^a Lorenzo; Piaggio Benedetto; Scotto Luca; Becchetti Sebastiano; Viviani Michele; Villa Diego
? Keywords: Computational Fluid Dynamics | hydrodynamics | rudders | submarines
? 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: 60102798400;57204360929;60102642500;60102345100;58090077400;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Bert^a L.

5.

? 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.

6.

? Title: Analysis of the Virtual Towing Tank Accuracy by Means of a New EFD Database
? Venue: Progress in Marine Science and Technology
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.3233/Pmst250032
? Scopus ID: 2-s2.0-105016108340
? Issn: 25430955
? eISSN: 25430963
? Volume: 10
? Pages: 241-251
? Authors: Bozzo Simone; Ferrando Marco; Villa Diego
? Keywords: CFD | EFD | towing tank test | uncertainty | V&V
? 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: 58713211300;7006903025;56250522200
? Authoraffiliationids: 133181689-60025153;60025153;60025153
? Corresponding: Bozzo S.

7.

? Title: Propeller design by optimisation for underwater radiated noise reduction: a full scale application
? Venue: Ocean Engineering
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.1016/j.oceaneng.2025.121412
? Scopus ID: 2-s2.0-105005290279
? Issn: 00298018
? Volume: 333
? Authors: Gaggero Stefano; Gaggero Tomaso; Tani Giorgio; Villa Diego; Rizzato Enrico; Pinto Ottavio; Becchi Paolo; De Angelis Emilio; Viviani Michele
? Keywords: Cavitation | Optimisation | Propeller design | Underwater radiated noise
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
? Source Id: 28339
? Author Ids: 6503976905;55212255700;55355605100;56250522200;6602173744;55820385800;12784057800;57205145488;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60083109;60122238;60122238;60025153
? Corresponding: Gaggero S.

8.

? Title: Optimizing Catamaran Hull Form for Resistance Reduction: Methodology and Case Study
? Venue: Journal of Marine Science and Engineering
? Year: 2025

? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.3390/jmse13061160
? Scopus ID: 2-s2.0-105009118003
? eISSN: 20771312
? Volume: 13
? Issue: 6

? Authors: Iamshchikov Evgenii; Janutenien? Jolanta; Ma?eika Pranas; Mickevi?ien? Rima; Villa Diego; Zapnickas Tomas; Djackov Vasilij

? Keywords: catamaran | demihull length | demihull spacing | demihull symmetry | total resistance

? 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)

? Source Id: 21100830140

? Author Ids:

58687179200;25223115000;25622293700;26422427400;56250522200;55217787700;57194039095

? Authoraffiliationids: 60041509;60041509;60041509;60041509;60025153;60041509;60041509

? Corresponding: Iamshchikov E.

9.

? 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

? Corresponding: Cristofano A.C.

10.

? 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
? Corresponding: Mazzeo A.

11.

? Title: Design by Optimization on the Nozzle and the Stator Blades of a Rim-Driven Pumpjet
? Venue: Journal of Marine Science and Engineering
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 1
? DOI: 10.3390/jmse12112090
? Scopus ID: 2-s2.0-85210288647
? eISSN: 20771312
? Volume: 12
? Issue: 11
? Authors: Lugaresi Marco; Villa Diego; Gaggero Stefano
? Keywords: CFD | design by optimization | optimization | propeller | pumpjet | RANS | rim-driven

? 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)

2024:

? Ocean Engineering (Q2, rank 30, percentile 74)
? Civil and Structural Engineering (Q2, rank 116, percentile 71)
? Water Science and Technology (Q2, rank 87, percentile 68)

? Source Id: 21100830140
? Author Ids: 59426744600;56250522200;6503976905
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lugaresi M.

12.

? 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;60017293;60017293;60017293;60017293;60017293

? Corresponding: Mazzeo A.

13.

? Title: Assessment of Numerical Captive Model Tests for Underwater Vehicles: The DARPA SUB-OFF Test Case

? Venue: Journal of Marine Science and Engineering

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 11

? DOI: 10.3390/jmse11122325

? Scopus ID: 2-s2.0-85180686068

? eISSN: 20771312

? Volume: 11

? Issue: 12

? Authors: Zheku Vito Vasilis; Villa Diego; Piaggio Benedetto; Gaggero Stefano; Viviani Michele

? Keywords: CFD | DARPA | manoeuvrability | naval hydrodynamics | RANS | 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)

2023:

- ? Civil and Structural Engineering (Q2, rank 126, percentile 66)
- ? Ocean Engineering (Q2, rank 36, percentile 66)
- ? Water Science and Technology (Q2, rank 100, percentile 61)
- ? Source Id: 21100830140
- ? Author Ids: 58033617300;56250522200;57204360929;6503976905;58090077400
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Zheku V.V.

14.

- ? Title: A comprehensive analysis of a numerical self-propulsion procedure for high-speed marine vehicles
- ? Venue: Ocean Engineering
- ? Year: 2023
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 3
- ? DOI: 10.1016/j.oceaneng.2023.115766
- ? Scopus ID: 2-s2.0-85171740044
- ? Issn: 00298018
- ? Volume: 287
- ? Authors: Villa Diego; Tani Giorgio; Gaggero Stefano; Ferrando Marco; Ausonio Pierluigi; Travi Piero; Viviani Michele
- ? Keywords: Computational fluid dynamics | High-speed marine vehicles | Self-propulsion prediction | Uncertainty quantification
- ? Quartile:

2025:

- ? Ocean Engineering (Q1, rank 6, percentile 95)
- ? Environmental Engineering (Q1, rank 38, percentile 83)

2023:

- ? Ocean Engineering (Q1, rank 14, percentile 87)
- ? Environmental Engineering (Q1, rank 48, percentile 75)
- ? Source Id: 28339
- ? Author Ids: 56250522200;55355605100;6503976905;7006903025;57193088176;57193089356;58090077400
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;118017113;118017113;60025153
- ? Corresponding: Villa D.

15.

- ? Title: A Fast Numerical Procedure to Design the Shaftline Struts
- ? Venue: Progress in Marine Science and Technology
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 2
- ? Doi: 10.3233/Pmst230008
- ? Scopus ID: 2-s2.0-85177656187
- ? Issn: 25430955
- ? eISSN: 25430963
- ? Volume: 7
- ? Pages: 43-52
- ? Authors: Bozzo Simone; Villa Diego
- ? Keywords: CFD | OpenFOAM | ship stern arrangement | struts alignment
- ? 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)

2023:

? Ocean Engineering (Q4, rank 91, percentile 13)

? Safety, Risk, Reliability and Quality (Q4, rank 186, percentile 10)

? Mechanical Engineering (Q4, rank 608, percentile 9)

? Source Id: 21101107127

? Author Ids: 58713211300;56250522200

? Authoraffiliationids: 60025153;60025153

? Corresponding: Bozzo S.

16.

? Title: Experimental analysis of the flow field around a propeller with inclined shaft

? Venue: Ocean Engineering

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1016/j.oceaneng.2023.115237

? Scopus ID: 2-s2.0-85164406079

? Issn: 00298018

? Volume: 285

? Authors: Abbasi Afaq Ahmed; Franzosi Giovanni; Canepa Edward; Gaggero Stefano; Villa Diego; Viviani Michele; Tani Giorgio

? Keywords: Cavitation tunnel | Inclined shaft | LDV measurements | Propeller wake | Tip vortex flow

? Quartile:

2025:

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

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

2023:

? Ocean Engineering (Q1, rank 14, percentile 87)

? Environmental Engineering (Q1, rank 48, percentile 75)

? Source Id: 28339

? Author Ids:

57201335703;58138664800;55781768700;6503976905;56250522200;58090077400;55355605100

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

? Corresponding: Abbasi A.A.

17.

? Title: Pre-Swirl Ducts, Pre-Swirl Fins and Wake-Equalizing Ducts for the DTC Hull: Design and Scale Effects

? Venue: Journal of Marine Science and Engineering

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.3390/jmse11051032

? Scopus ID: 2-s2.0-85160785883

? eISSN: 20771312

? Volume: 11

? Issue: 5

? Authors: Nicorelli Giacomo; Villa Diego; Gaggero Stefano

? Keywords: BEM | design-by-optimization | DTC hull | energy-saving devices | optimization | pre-swirl duct | pre-swirl fins | RANSE | wake-equalizing duct

? 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)

2023:

- ? Civil and Structural Engineering (Q2, rank 126, percentile 66)
- ? Ocean Engineering (Q2, rank 36, percentile 66)
- ? Water Science and Technology (Q2, rank 100, percentile 61)

? Source Id: 21100830140

? Author Ids: 58297407000;56250522200;6503976905

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Nicorelli G.

18.

? Title: Twin-screw vessel manoeuvrability: The traditional twin-rudder configuration vs pod-drives

? Venue: Ocean Engineering

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 3

? DOI: 10.1016/j.oceaneng.2023.113725

? Scopus ID: 2-s2.0-85147365813

? Issn: 00298018

? Volume: 271

? Authors: Piaggio Benedetto; Sommariva Guglielmo; Franceschi Andrea; Villa Diego; Viviani Michele

? Quartile:

2025:

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

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

2023:

- ? Ocean Engineering (Q1, rank 14, percentile 87)

- ? Environmental Engineering (Q1, rank 48, percentile 75)

? Source Id: 28339

? Author Ids: 57204360929;58090472000;57221162704;56250522200;58090077400

? Authoraffiliationids: 60025153;60122238;60122238;60025153;60025153

? Corresponding: Piaggio B.

19.

? 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.

20.

? Title: The heel influence on ship manoeuvrability: Single and twin-screw surface vessels

? Venue: Ocean Engineering

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1016/j.oceaneng.2022.112721

? Scopus ID: 2-s2.0-85140026825

? Issn: 00298018

? Volume: 266

? Authors: Piaggio B.; Franceschi A.; Villa D.; Ferrari V.; Tonelli R.; Viviani M.

? Keywords: 4 Degrees of Freedom | Heel effect | IMO standards | Manoeuvrability |

Turning | Zigzag

? Quartile:

2025:

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

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

2022:

? Ocean Engineering (Q1, rank 16, percentile 84)

? Environmental Engineering (Q1, rank 46, percentile 75)

? Source Id: 28339

? Author Ids: 57204360929;57221162704;56250522200;56016852400;7004058063;58090077400

? Authoraffiliationids: 60025153;60025153;60025153;60029978;60029978;60025153

? Corresponding: Piaggio B.

21.

? Title: A Review of Ship-to-Ship Interactions in Calm Waters

? Venue: Journal of Marine Science and Engineering

? Year: 2022

? Type: Journal

? Subtype: Review

? Citations: 10

? DOI: 10.3390/jmse10121856

? Scopus ID: 2-s2.0-85144952640

? eISSN: 20771312

? Volume: 10

? Issue: 12

? Authors: DeMarco Muscat-Fenech Claire; Sant Tonio; Zheku Vito Vasilis; Villa Diego; Martelli Michele

? Keywords: experimental model interactions | head-to-head encounters | lightering

operations | overtaking manoeuvres | RANS solver | ship-to-ship interaction

? 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: 57221923281;9241517500;58033617300;56250522200;55521641400

? Authoraffiliationids: 60072651;60072651;60025153;60025153;60025153

? Corresponding: DeMarco Muscat-Fenech C.

22.

? Title: Computational prediction of underwater radiated noise of cavitating marine propellers: On the accuracy of semi-empirical models

? Venue: Ocean Engineering

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 4

? DOI: 10.1016/j.oceaneng.2022.111477

? Scopus ID: 2-s2.0-85134296375

? Issn: 00298018

? Volume: 259

? Authors: Kalikatzarakis Miltiadis; Coraddu Andrea; Atlar Mehmet; Gaggero Stefano; Tani Giorgio; Villa Diego; Oneto Luca

? Keywords: Cavitation | Marine propeller | Semi-empirical model | Sheet cavitation | Tip-vortex cavitation | Underwater radiated noise | Validation test

? Quartile:

2025:

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

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

2022:

? Ocean Engineering (Q1, rank 16, percentile 84)

? Environmental Engineering (Q1, rank 46, percentile 75)

? Source Id: 28339

? Author Ids:

56731120600;55193514900;6701684164;6503976905;55355605100;56250522200;41262130900

? Authoraffiliationids:

60024724;60024724-60118236;60024724;60121711;60121711;60121711;60025153

? Corresponding: Kalikatzarakis M.

23.

? Title: SHIP URN: UNIGE Activities in the Context of LIFE-PIAQUO Project

? Venue: Progress in Marine Science and Technology

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.3233/Pmst220061

? Scopus ID: 2-s2.0-85138200266

? Issn: 25430955

? eISSN: 25430963

- ? Volume: 6
? Pages: 512-521
? Authors: Gaggero Stefano; Gaggero Tomaso; Tani Giorgio; Villa Diego; Rizzato Enrico; Viviani Michele
? Keywords: Cavitation | Cavitation detection | Noise mapping | Optimization | Propeller design | Underwater radiated noise
? 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;55212255700;55355605100;56250522200;6602173744;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.
24.
? 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.
25.
? Title: CFD Prediction of the Asymmetrical Shaft Unbalance During Ship Maneuvers
? Venue: Progress in Marine Science and Technology
? Year: 2022
? Type: Conference Proceeding

? Subtype: Conference Paper
? Citations: 1
? Doi: 10.3233/Pmst220023
? Scopus ID: 2-s2.0-85138166927
? Issn: 25430955
? eISSN: 25430963
? Volume: 6
? Pages: 178-187
? Authors: Villa Diego; Gaggero Stefano
? Keywords: Computational Fluid Dynamics (CFD) | Propeller Body-Forces | Propeller Load Unbalance | Ship Maneuvering

? 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: 56250522200;6503976905

? Authoraffiliationids: 60025153;60025153

? Corresponding: Villa D.

26.

? 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.

27.

? Title: Development and assessment of CFD methods to calculate propeller and hull impact on the rudder inflow for a twin-screw ship

? Venue: Applied Ocean Research

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 19

? DOI: 10.1016/j.apor.2022.103227

? Scopus ID: 2-s2.0-85131965307

? Issn: 01411187

? Volume: 125

? Authors: Franceschi Andrea; Piaggio Benedetto; Villa Diego; Viviani Michele

? Keywords: Manoeuvrability | OpenFOAM | Reynolds average Navier?Stokes (RANS) |

Rudder?propeller interaction | Straightening coefficients

? Quartile:

2025:

? Ocean Engineering (Q1, rank 15, percentile 87)

2022:

? Ocean Engineering (Q1, rank 13, percentile 87)

? Source Id: 26776

? Author Ids: 57221162704;57204360929;56250522200;58090077400

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Franceschi A.

28.

? 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.

29.

? Title: A method to assess safety and comfort for different ships types in a region of interest

? Venue: Ocean Engineering

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 6
? DOI: 10.1016/j.oceaneng.2022.110995
? Scopus ID: 2-s2.0-85126536942
? Issn: 00298018
? Volume: 250
? Authors: Gaggero Tomaso; Bucciarelli Filippo; Besio Giovanni; Mazzino Andrea; Villa Diego
? Keywords: AIS | Mediterranean sea | Safety and comfort indexes | Ship and route identification
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2022:
? Ocean Engineering (Q1, rank 16, percentile 84)
? Environmental Engineering (Q1, rank 46, percentile 75)
? Source Id: 28339
? Author Ids: 55212255700;57491565400;9844111300;7004593510;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero T.

30.
? Title: An investigation on the heel influence on manoeuverability: A twin-screw RORO vessel case study
? Venue: Proceedings in Marine Technology and Ocean Engineering
? Year: 2022
? Type: Book Series
? Subtype: Book Chapter
? Citations: 0
? Doi: 10.1201/9781003320272-46
? Scopus ID: 2-s2.0-85216188579
? Issn: 2638647x
? eISSN: 26386461
? Volume: 1
? Pages: 417-423
? Authors: Piaggio B.; Rimini B.; Villa D.; Viviani M.; Ferrari V.; Tonelli R.
? Quartile:

2025:
? Ocean Engineering (Q3, rank 73, percentile 37)
? Source Id: 21101270843
? Author Ids: 57204360929;59531979500;56250522200;58090077400;56016852400;7004058063
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60029978;60029978
? Corresponding: Piaggio B.

31.
? 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.

32.

? Title: Exploring the effects of speed and scale on a ship's form factor using CFD
? Venue: International Journal of Naval Architecture and Ocean Engineering
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 25
? DOI: 10.1016/j.ijnaoe.2020.12.002
? Scopus ID: 2-s2.0-85102561667
? Issn: 20926782
? eISSN: 20926790
? Volume: 13
? Pages: 147-162
? Authors: Terziev Momchil; Tezdogan Tahsin; Demirel Yigit Kemal; Villa Diego; Mizzi Simon; Incecik Atilla
? Keywords: Form factor | Froude number dependence | Reynolds number dependence | Scale effects | Ship resistance

? Quartile:

2025:

? Ocean Engineering (Q1, rank 19, percentile 84)
? Control and Systems Engineering (Q1, rank 80, percentile 79)

2021:

? Ocean Engineering (Q1, rank 21, percentile 79)
? Control and Systems Engineering (Q2, rank 75, percentile 72)

? Source Id: 21100197706

? Author Ids: 57196234362;56046196100;56044990600;56250522200;57894106600;7003453599
? Authoraffiliationids: 60024724;60024724;60024724;60025153;60072651;60024724

? Corresponding: Terziev M.

33.

? 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; Furcas 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.

34.

? 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.

35.

? Title: Assessment of the manoeuvrability characteristics of a twin shaft naval vessel using an open-source cfd code

? Venue: Journal of Marine Science and Engineering

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 23
? DOI: 10.3390/jmse9060665
? Scopus ID: 2-s2.0-85108896596
? eISSN: 20771312
? Volume: 9
? Issue: 6
? Authors: Franceschi Andrea; Piaggio Benedetto; Tonelli Roberto; Villa Diego; Viviani Michele
? Keywords: DTMB 5415 | Hydrodynamic coefficients | Manoeuvrability | Reynolds average navier-stokes (RANS) | Virtual captive tests
? 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: 57221162704;57204360929;7004058063;56250522200;58090077400
? Authoraffiliationids: 60025153;60025153;60029978;60025153;60025153
? Corresponding: Franceschi A.

36.
? Title: A method for the probabilistic assessment of the on-board comfort on a passenger vessel route
? Venue: Ocean Engineering
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 12
? DOI: 10.1016/j.oceaneng.2021.108702
? Scopus ID: 2-s2.0-85102111126
? Issn: 00298018
? Volume: 225
? Authors: Carchen Alessandro; Gaggero Tomaso; Besio Giovanni; Mazzino Alessandro; Villa Diego
? Keywords: AIS | MSI | Probability | Route comfort | Seakeeping | Wave scatter diagrams
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2021:
? Ocean Engineering (Q1, rank 9, percentile 91)
? Environmental Engineering (Q1, rank 34, percentile 80)
? Source Id: 28339
? Author Ids: 57195154251;55212255700;9844111300;57222273815;56250522200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Carchen A.

37.
? Title: Investigating the effect of heterogeneous hull roughness on ship resistance using cfd
? Venue: Journal of Marine Science and Engineering

? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 20
? DOI: 10.3390/jmse9020202
? Scopus ID: 2-s2.0-85102517820
? eISSN: 20771312
? Volume: 9
? Issue: 2
? Pages: 1-16
? Authors: Song Soonseok; Demirel Yigit Kemal; Muscat-Fenech Claire De Marco; Sant Tonio; Villa Diego; Tezdogan Tahsin; Incecik Atilla
? Keywords: Computational fluid dynamics (CFD) | Heterogeneous hull roughness | Roughness effect | Ship resistance | Wigley hull
? 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: 57205880533;56044990600;55940054200;9241517500;56250522200;56046196100;7003453599
? Authoraffiliationids: 60024724;60024724;60072651;60072651;60025153;60024724;60024724
? Corresponding: Song S.

38.

? Title: Design and application of propeller boss cap fins to ducted propellers
? Venue: Developments in Maritime Technology and Engineering Proceedings of the 5th International Conference on Maritime Technology and Engineering Martech 2020
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1201/9781003216582-38
? Scopus ID: 2-s2.0-85115397128
? Volume: 1
? Pages: 337-347
? Authors: Martinelli M.; Villa D.; Gaggero S.
? Source Id: 21101129854
? Author Ids: 57224361890;56250522200;6503976905
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Martinelli M.

39.

? 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.

40.

? Title: The use of computational fluid dynamic technique in ship control design
? Venue: Ships and Offshore Structures
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 15
? Doi: 10.1080/17445302.2019.1706908
? Scopus ID: 2-s2.0-85077165478
? Issn: 17445302
? Volume: 16
? Issue: 1
? Pages: 31-45
? Authors: Martelli M.; Villa D.; Viviani M.; Donnarumma S.; Figari M.
? Keywords: CFD | control design | marine propulsion plant | Ship dynamics | simulation techniques | slow-speed manoeuvrability

? 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: 55521641400;56250522200;58090077400;55350308600;6507282370
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Martelli M.

41.

? Title: Numerical analysis of the rudder-propeller interaction
? Venue: Journal of Marine Science and Engineering
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 33
? DOI: 10.3390/jmse8120990

? Scopus ID: 2-s2.0-85098445851
? eISSN: 20771312
? Volume: 8
? Issue: 12
? Pages: 1-22
? Authors: Villa Diego; Franceschi Andrea; Viviani Michele
? Keywords: Actuator disk theory | Reynolds Average Navier-Stokes (RANS) | Rudder sectional forces | Rudder-propeller interactions | Validations and verification
? 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)
2020:
? Ocean Engineering (Q2, rank 45, percentile 53)
? Water Science and Technology (Q3, rank 125, percentile 44)
? Civil and Structural Engineering (Q3, rank 180, percentile 43)
? Source Id: 21100830140
? Author Ids: 56250522200;57221162704;58090077400
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Villa D.

42.

? 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.

43.

? Title: Numerical analysis of escort tug manoeuvrability characteristics ? Part II: The skeg effect
? Venue: Applied Ocean Research
? Year: 2020
? Type: Journal
? Subtype: Article

? Citations: 20
? DOI: 10.1016/j.apor.2020.102199
? Scopus ID: 2-s2.0-85084856179
? Issn: 01411187
? Volume: 100
? Authors: Piaggio Benedetto; Villa Diego; Viviani Michele; Figari Massimo
? Keywords: Captive model tests | Escort tug | Manoeuvrability | Reynolds average navier-Stokes (RANS) | Skeg
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2020:
? Ocean Engineering (Q1, rank 16, percentile 83)
? Source Id: 26776
? Author Ids: 57204360929;56250522200;58090077400;6507282370
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Piaggio B.

44.
? Title: An all-round design-to-simulation approach of a new Z-drive escort tug class
? Venue: Journal of Offshore Mechanics and Arctic Engineering
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 13
? Doi: 10.1115/1.4045440
? Scopus ID: 2-s2.0-85079632224
? Issn: 08927219
? eISSN: 1528896X
? Volume: 142
? Issue: 3
? Authors: Figari Massimo; Martinelli Luca; Piaggio Benedetto; Enoizi Lucia; Viviani Michele; Villa Diego
? Quartile:
2025:
? Ocean Engineering (Q2, rank 42, percentile 64)
? Mechanical Engineering (Q2, rank 286, percentile 61)
2020:
? Ocean Engineering (Q2, rank 36, percentile 63)
? Mechanical Engineering (Q2, rank 235, percentile 60)
? Source Id: 20985
? Author Ids: 6507282370;57203641272;57204360929;57204365897;58090077400;56250522200
? Authoraffiliationids: 60025153;110039644;60025153;110039644;60025153;60025153
? Corresponding: Figari M.

45.
? Title: Numerical and experimental comparison of ducted and non-ducted propellers
? Venue: Journal of Marine Science and Engineering
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 36
? Doi: 10.3390/Jmse8040257
? Scopus ID: 2-s2.0-85086743260
? eISSN: 20771312
? Volume: 8

? Issue: 4

? Authors: Villa Diego; Gaggero Stefano; Tani Giorgio; Viviani Michele

? Keywords: Adaptive mesh refinement (AMR) | Ducted propeller | Reynolds-averaged navier-stokes (RANS) | Validations and verifications

? 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)

2020:

? Ocean Engineering (Q2, rank 45, percentile 53)

? Water Science and Technology (Q3, rank 125, percentile 44)

? Civil and Structural Engineering (Q3, rank 180, percentile 43)

? Source Id: 21100830140

? Author Ids: 56250522200;6503976905;55355605100;58090077400

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Villa D.

46.

? 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.

47.

? Title: Numerical analysis of escort tug manoeuvrability characteristics

? Venue: Applied Ocean Research

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 30

? DOI: 10.1016/j.apor.2020.102075

? Scopus ID: 2-s2.0-85079662814

? Issn: 01411187

? Volume: 97

? Authors: Piaggio Benedetto; Villa Diego; Viviani Michele

? Keywords: Captive model tests | Escort tug | Manoeuvring | Reynolds average Navier-

Stokes (RANS) | Validation

? Quartile:

2025:

? Ocean Engineering (Q1, rank 15, percentile 87)

2020:

? Ocean Engineering (Q1, rank 16, percentile 83)

? Source Id: 26776

? Author Ids: 57204360929;56250522200;58090077400

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Piaggio B.

48.

? 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.

49.

? 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.

50.

? 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.

51.

? Title: CFD-based analyses for a slow speed manoeuvrability model

? Venue: Journal of Marine Science and Technology Japan

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 21

? DOI: 10.1007/s00773-018-0593-8

? Scopus ID: 2-s2.0-85053476653

? Issn: 09484280

? Volume: 24

? Issue: 3

? Pages: 871-883

? Authors: Villa Diego; Viviani Michele; Gaggero Stefano; Vantorre Marc; Eloot Katrien; Delefortrie Guillaume

? Keywords: CFD verification and validation | CFD viscous code | OpenFOAM | Slow speed manoeuvrability

? Quartile:

2025:

- ? Oceanography (Q1, rank 26, percentile 83)
- ? Ocean Engineering (Q1, rank 28, percentile 76)
- ? Mechanical Engineering (Q1, rank 178, percentile 75)
- ? Mechanics of Materials (Q2, rank 123, percentile 70)

2019:

- ? Ocean Engineering (Q2, rank 29, percentile 68)
- ? Mechanical Engineering (Q2, rank 215, percentile 63)
- ? Oceanography (Q2, rank 50, percentile 60)
- ? Mechanics of Materials (Q2, rank 151, percentile 58)
- ? Source Id: 27784
- ? Author Ids: 56250522200;58090077400;6503976905;6602156672;10738926700;10739448300
- ? Authoraffiliationids: 60025153;60025153;60025153;60033316;60159376;60159376
- ? Corresponding: Villa D.

52.

- ? 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.

53.

- ? Title: Propeller modeling approaches for off?design operative conditions
- ? Venue: Ocean Engineering
- ? Year: 2019
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 35
- ? DOI: 10.1016/j.oceaneng.2019.02.069
- ? Scopus ID: 2-s2.0-85063115439
- ? Issn: 00298018
- ? Volume: 178
- ? Pages: 283-305
- ? Authors: Gaggero Stefano; Dubbioso Giulio; Villa Diego; Muscari Roberto; Viviani Michele
- ? Keywords: Blade element propeller model | Boundary element method | Off?design

propeller performance | Propeller bearing loads | Ship maneuvering

? 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: 6503976905;36543735000;56250522200;6602598781;58090077400

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

? Corresponding: Gaggero S.

54.

? 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.

55.

? Title: A practical tool for the hydro-acoustic optimization of naval propellers

? Venue: 8th International Conference on Computational Methods in Marine Engineering Marine 2019

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 3

? Scopus ID: 2-s2.0-85095234611

? Pages: 296-308

? Authors: Valdenazzi Federica; Conti Francesco; Gaggero Stefano; Grassi Davide; Vaccaro Cristina; Villa Diego

? Keywords: Acoustics | Design | Optimization | Propeller | Tip vortex

? Source Id: 21101039467

? Author Ids: 55978581700;56865490700;6503976905;36630335500;56865744300;56250522200

? Authoraffiliationids: 60122238;60083109;60025153;60122238;60083109;60025153

? Corresponding: Valdenazzi F.

56.

? 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.

57.

? 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.

58.

? Title: A Fluid-Structure Interaction case study on a square sail in a wind tunnel
? Venue: Ocean Engineering
? Year: 2018
? Type: Journal
? Subtype: Review
? Citations: 4
? DOI: 10.1016/j.oceaneng.2018.05.056
? Scopus ID: 2-s2.0-85048185702
? Issn: 00298018
? Volume: 163
? Pages: 136-147
? Authors: Ghelardi Stefano; Freda Andrea; Rizzo Cesare Mario; Villa Diego
? Keywords: Benchmark | CFD | FEA | Fluid structure interaction (FSI) | Sail | Wind

tunnel

? Quartile:

2025:

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

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

2018:

? Ocean Engineering (Q1, rank 13, percentile 86)

? Environmental Engineering (Q1, rank 29, percentile 77)

? Source Id: 28339

? Author Ids: 56030081700;8688315000;15072981100;56250522200

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ghelardi S.

59.

? Title: A study on the influence of hull wake on model scale cavitation and noise tests for a fast twin screw vessel with inclined shaft

? Venue: Proceedings of the Institution of Mechanical Engineers Part M Journal of Engineering for the Maritime Environment

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 8

? Doi: 10.1177/1475090217693418

? Scopus ID: 2-s2.0-85042079373

? Issn: 14750902

? eISSN: 20413084

? Volume: 232

? Issue: 3

? Pages: 307-330

? Authors: Tani Giorgio; Viviani Michele; Villa Diego; Ferrando Marco

? Keywords: Cavitation | hull wake | marine propulsion | model scale measurements | underwater radiated noise

? Quartile:

2025:

? Ocean Engineering (Q2, rank 37, percentile 68)

? Mechanical Engineering (Q2, rank 249, percentile 66)

2018:

? Ocean Engineering (Q2, rank 25, percentile 73)

? Mechanical Engineering (Q2, rank 169, percentile 71)

? Source Id: 25596

? Author Ids: 55355605100;58090077400;56250522200;7006903025

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Tani G.

60.

? Title: Numerical Evaluation of Rudder Performance Behind a Propeller in Bollard Pull Condition

? Venue: Journal of Marine Science and Application

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 30

? DOI: 10.1007/s11804-018-0018-4

? Scopus ID: 2-s2.0-85049569100

? Issn: 16719433

? Volume: 17

? Issue: 2
? Pages: 153-164
? Authors: Villa Diego; Viviani Michele; Tani Giorgio; Gaggero Stefano; Bruzzone Dario; Podenzana Carlo Bonvino
? Keywords: Actuator disk | Body forces | Bollard pull | RANS | Rudder?propeller interaction
? Quartile:
2025:
? Ocean Engineering (Q2, rank 39, percentile 66)
? Mechanical Engineering (Q2, rank 253, percentile 65)
2018:
? Ocean Engineering (Q2, rank 46, percentile 51)
? Mechanical Engineering (Q3, rank 302, percentile 48)
? Source Id: 5400152711
? Author Ids: 562505222200;58090077400;55355605100;6503976905;6602292559;57202858212
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Villa D.

61.
? Title: Cavitating Propeller Performance in Inclined Shaft Conditions with OpenFOAM: PPTC 2015 Test Case

? Venue: Journal of Marine Science and Application
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 24
? DOI: 10.1007/s11804-018-0008-6
? Scopus ID: 2-s2.0-85047833455
? Issn: 16719433
? eISSN: 19935048
? Volume: 17
? Issue: 1
? Pages: 1-20
? Authors: Gaggero Stefano; Villa Diego
? Keywords: BEM | Cavitation | Inclined shaft | OpenFOAM | PPTC | Propeller | RANSE | Unsteady flow

? Quartile:
2025:
? Ocean Engineering (Q2, rank 39, percentile 66)
? Mechanical Engineering (Q2, rank 253, percentile 65)

2018:
? Ocean Engineering (Q2, rank 46, percentile 51)
? Mechanical Engineering (Q3, rank 302, percentile 48)

? Source Id: 5400152711
? Author Ids: 6503976905;562505222200
? Authoraffiliationids: 60025153;60025153
? Corresponding: Gaggero S.

62.
? 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.

63.

? Title: Improving model scale propeller performance prediction using the k?kL?? transition model in OpenFOAM
? Venue: International Shipbuilding Progress
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 7
? Doi: 10.3233/Isp-180146
? Scopus ID: 2-s2.0-85059504304
? Issn: 0020868x
? eISSN: 15662829
? Volume: 65
? Issue: 2
? Pages: 187-226
? Authors: Gaggero Stefano; Villa Diego
? Keywords: laminar-turbulent transition | OpenFOAM | Propeller performance | RANS
? Quartile:
2025:
? Ocean Engineering (Q3, rank 72, percentile 38)
? Mechanical Engineering (Q3, rank 456, percentile 38)
2018:
? Ocean Engineering (Q3, rank 55, percentile 41)
? Mechanical Engineering (Q3, rank 367, percentile 37)
? Source Id: 25630
? Author Ids: 6503976905;56250522200
? Authoraffiliationids: 60025153;60025153
? Corresponding: Gaggero S.

64.

? Title: Identification of self-noise sources of a maritime unmanned system by CFD analysis
? Venue: 25th International Congress on Sound and Vibration 2018 Icsv 2018 Hiroshima Calling
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85058779401
? Volume: 8
? Pages: 4929-4936
? Authors: Ricciardone Gabriele; Gaggero Tomaso; Villa Diego; Gaggero Stefano; Biagini Stefano; Tesei Alessandra
? Keywords: CFD noise | Self noise | Waveglider
? Source Id: 21100892235
? Author Ids: 57205149210;55212255700;56250522200;6503976905;36875802500;55535266800

- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;114093246;114093246
? Corresponding: Ricciardone G.
65.
? Title: AN optimization framework for pbcf energy saving devices
? Venue: Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering OMAE
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1115/Omae2018-77921
? Scopus ID: 2-s2.0-85055559597
? Volume: 7B
? Authors: Gaggero Stefano; Villa Diego
? Source Id: 91440
? Author Ids: 6503976905;56250522200
? Authoraffiliationids: 60025153;60025153
? Corresponding: Gaggero S.
66.
? 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; Bruzzone Dario; Vernengo Giuliano; Villa Diego
? Source Id: 91440
? Author Ids: 56737265100;55848582900;6602292559;37662376400;56250522200
? Authoraffiliationids: 60025153;60022195;60025153;60025153;60025153
? Corresponding: Ageno E.
67.
? Title: All around approach for the design of a new escort tug family
? Venue: Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering OMAE
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1115/Omae2018-77914
? Scopus ID: 2-s2.0-85055339380
? Volume: 11B
? Authors: Figari Massimo; Martinelli Luca; Viviani Michele; Villa Diego; Enoizi Lucia; Piaggio Benedetto
? Source Id: 91440
? Author Ids: 6507282370;57203641272;58090077400;56250522200;57204365897;57204360929
? Authoraffiliationids: 60025153;110039644;60025153;60025153;110039644;60025153
? Corresponding: Figari M.
68.
? 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) | Slamping | 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.

69.

? Title: Three-dimensional fluid-structure interaction case study on cubical fluid cavity with flexible bottom
? Venue: Journal of Marine Science and Application
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 7
? DOI: 10.1007/s11804-017-1433-7
? Scopus ID: 2-s2.0-85032331067
? Issn: 16719433
? Volume: 16
? Issue: 4
? Pages: 382-394
? Authors: Ghelardi Stefano; Rizzo Cesare; Villa Diego
? Keywords: ADINA? | benchmark | finite element method | finite volume method | fluid-structure interaction | monolithic | partitioned
? Quartile:
2025:
? Ocean Engineering (Q2, rank 39, percentile 66)
? Mechanical Engineering (Q2, rank 253, percentile 65)
2017:
? Ocean Engineering (Q3, rank 48, percentile 48)
? Mechanical Engineering (Q3, rank 311, percentile 46)
? Source Id: 5400152711
? Author Ids: 56030081700;15072981100;56250522200

- ? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Ghelardi S.
70.
? Title: Design of ducted propeller nozzles through a RANSE-based optimization approach
? Venue: Ocean Engineering
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 64
? DOI: 10.1016/j.oceaneng.2017.09.037
? Scopus ID: 2-s2.0-85030663399
? Issn: 00298018
? Volume: 145
? Pages: 444-463
? Authors: Gaggero Stefano; Villa Diego; Tani Giorgio; Viviani Michele; Bertetta Daniele
? Keywords: Accelerating nozzles | Decelerating nozzles | Ducted propellers | OpenFOAM | Optimization | RANSE
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2017:
? Ocean Engineering (Q1, rank 15, percentile 84)
? Environmental Engineering (Q2, rank 31, percentile 73)
? Source Id: 28339
? Author Ids: 6503976905;56250522200;55355605100;58090077400;55334414300
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60083109
? Corresponding: Gaggero S.
71.
? Title: An extensive analysis of numerical ship self-propulsion prediction via a coupled BEM/RANS approach
? Venue: Applied Ocean Research
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 82
? DOI: 10.1016/j.apor.2017.05.005
? Scopus ID: 2-s2.0-85019962640
? Issn: 01411187
? Volume: 66
? Pages: 55-78
? Authors: Gaggero Stefano; Villa Diego; Viviani Michele
? Keywords: CFD simulations | Propeller body forces | RANS/BEM coupling approach | Ship self-propulsion
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2017:
? Ocean Engineering (Q1, rank 18, percentile 81)
? Source Id: 26776
? Author Ids: 6503976905;56250522200;58090077400
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero S.

72.

? Title: Steady cavitating propeller performance by using OpenFOAM, StarCCM+and a boundary element method
? Venue: Proceedings of the Institution of Mechanical Engineers Part M Journal of Engineering for the Maritime Environment
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 43
? Doi: 10.1177/1475090216644280
? Scopus ID: 2-s2.0-85019192699
? Issn: 14750902
? eISSN: 20413084
? Volume: 231
? Issue: 2
? Pages: 411-440
? Authors: Gaggero Stefano; Villa Diego
? Keywords: boundary element method | cavitation | computational fluid dynamics | OpenFOAM | Potsdam Propeller Test Case | propellers | Schnerr-Sauer cavitation model | StarCCM+
? Quartile:
2025:
? Ocean Engineering (Q2, rank 37, percentile 68)
? Mechanical Engineering (Q2, rank 249, percentile 66)
2017:
? Mechanical Engineering (Q2, rank 157, percentile 72)
? Ocean Engineering (Q2, rank 27, percentile 71)
? Source Id: 25596
? Author Ids: 6503976905;56250522200
? Authoraffiliationids: 60025153;60025153
? Corresponding: Gaggero S.

73.

? Title: Efficient and multi-objective cavitating propeller optimization: An application to a high-speed craft
? Venue: Applied Ocean Research
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 60
? DOI: 10.1016/j.apor.2017.01.018
? Scopus ID: 2-s2.0-85012884181
? Issn: 01411187
? Volume: 64
? Pages: 31-57
? Authors: Gaggero Stefano; Tani Giorgio; Villa Diego; Viviani Michele; Ausonio Pierluigi; Travi Piero; Bizzarri Giovanni; Serra Francesco
? Keywords: BEM | Cavitation tunnel measurements | Constrained optimization | Genetic algorithm | High-Speed propeller | Multi-objective optimization | Propeller | Propeller cavitation | RANSE
? Quartile:
2025:
? Ocean Engineering (Q1, rank 15, percentile 87)
2017:
? Ocean Engineering (Q1, rank 18, percentile 81)

? Source Id: 26776
? Author Ids: 6503976905;55355605100;56250522200;58090077400;57193088176;57193089356;57193082661;57193082951
? Authoraffiliationids: 60025153;60025153;60025153;60025153;118017113;118017113;118017248;118017248
? Corresponding: Gaggero S.

74.
? Title: Optimization based design of high speed craft propellers
? Venue: Rina Royal Institution of Naval Architects International Conference on Design and Construction of Super and Mega Yachts 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85064448330
? Authors: Gaggero S.; Tani G.; Villa D.; Viviani M.; Ausonio P.; Travi P.; Bizzarri G.; Serra F.
? Source Id: 21100903772
? Author Ids: 6503976905;55355605100;56250522200;58090077400;57193088176;57193089356;57193082661;57193082951
? Authoraffiliationids: 60025153;60025153;60025153;60025153;118017113;118017113;119074385;119074385
? Corresponding: Gaggero S.

75.
? Title: Propeller nozzles design using viscous codes and optimization algorithms
? Venue: 7th International Conference on Computational Methods in Marine Engineering Marine 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 9
? Scopus ID: 2-s2.0-85045688729
? Volume: 2017-May
? Pages: 243-255
? Authors: Gaggero Stefano; Villa Diego; Tani Giorgio; Viviani Michele
? Keywords: Accelerating nozzles design | Decelerating nozzles design | Ducted propellers | OpenFOAM | Optimization
? Source Id: 21100857769
? Author Ids: 6503976905;56250522200;55355605100;58090077400
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.

76.
? 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.

77.

? Title: Experimental investigation of pressure pulses and radiated noise for two alternative designs of the propeller of a high-speed craft
? Venue: Ocean Engineering
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 22
? DOI: 10.1016/j.oceaneng.2017.01.015
? Scopus ID: 2-s2.0-85010705180
? Issn: 00298018
? Volume: 132
? Pages: 45-69
? Authors: Tani Giorgio; Villa Diego; Gaggero Stefano; Viviani Michele; Ausonio Pierluigi; Travi Piero; Bizzarri Giovanni; Serra Francesco
? Keywords: Model scale experiments | Pressure pulses | Propeller cavitation | Propeller optimization | Radiated noise
? Quartile:
2025:
? Ocean Engineering (Q1, rank 6, percentile 95)
? Environmental Engineering (Q1, rank 38, percentile 83)
2017:
? Ocean Engineering (Q1, rank 15, percentile 84)
? Environmental Engineering (Q2, rank 31, percentile 73)
? Source Id: 28339
? Author Ids: 55355605100;56250522200;6503976905;58090077400;57193088176;57193089356;57193082661;57193082951
? Authoraffiliationids:
60025153;60025153;60025153;60025153;118017113;118017113;118017248;118017248
? Corresponding: Tani G.

78.

? Title: A ship weather-routing tool for route evaluation and selection: Influence of the wave spectrum
? Venue: Maritime Transportation and Harvesting of Sea Resources
? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 10
? Scopus ID: 2-s2.0-85055430979
? Volume: 1
? Pages: 453-462
? Authors: Spentza E.; Besio G.; Mazzino A.; Gaggero T.; Villa D.
? Source Id: 21100886381
? Author Ids: 58684997600;9844111300;7004593510;55212255700;56250522200
? Authoraffiliationids:
60025153-113861394;60025153-113861394;60025153-113861394;60025153;60025153
? Corresponding: Spentza E.

79.

- ? Title: Ship propeller side effects: Pressure pulses and radiated noise
- ? Venue: Noise Mapping
- ? Year: 2016
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 5
- ? DOI: 10.1515/noise-2016-0021
- ? Scopus ID: 2-s2.0-85029416512
- ? eISSN: 2084879X
- ? Volume: 3
- ? Issue: 1
- ? Pages: 295-315
- ? Authors: Gaggero Stefano; Gaggero Tomaso; Rizzato Enrico; Tani Giorgio; Villa Diego; Viviani Michele
- ? Keywords: AQUO Project | Cavitation noise | Pressure pulses | Propeller side effects | Ship underwater noise
- ? Quartile:
- 2025:
 - ? Urban Studies (Q1, rank 58, percentile 80)
 - ? Acoustics and Ultrasonics (Q1, rank 11, percentile 80)
 - ? Management, Monitoring, Policy and Law (Q2, rank 157, percentile 62)
- ? Source Id: 21100861552
- ? Author Ids: 6503976905;55212255700;6602173744;55355605100;56250522200;58090077400
- ? Authoraffiliationids: 60025153;60025153;60017293;60025153;60025153;60025153
- ? Corresponding: Gaggero S.

80.

- ? Title: Assessment of different methods for the prediction of marine propellers induced pressures
- ? Venue: Proceedings of 3rd International Conference on Maritime Technology and Engineering Martech 2016
- ? Year: 2016
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 1
- ? DOI: 10.1201/b21890-38
- ? Scopus ID: 2-s2.0-85016830947
- ? Volume: 1
- ? Pages: 269-278
- ? Authors: Gaggero S.; Tani G.; Villa D.; Viviani M.; Conti F.; Vaccaro C.
- ? Source Id: 21100804421
- ? Author Ids: 6503976905;55355605100;56250522200;58090077400;56865490700;56865744300
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60083109;60083109
- ? Corresponding: Gaggero S.

81.

- ? Title: Statistical analysis of ship noise records
- ? Venue: ICSV 2016 23rd International Congress on Sound and Vibration from Ancient to Modern Acoustics
- ? Year: 2016
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 1
- ? Scopus ID: 2-s2.0-84987915602
- ? Authors: Traverso Federico; Gaggero Tomaso; Tani Giorgio; Viviani Michele; Villa

- Diego; Gaggero Stefano; Rizzato Enrico; Trucco Andrea
? Source Id: 21100779036
? Author Ids: 6602210571;55212255700;55355605100;58090077400;56250522200;6503976905;660
2173744;7007035725
? Authoraffiliationids:
60025153;60025153;60025153;60025153;60025153;60017293;60025153-60102151
? Corresponding: Traverso F.
82.
? Title: Open source computations of planing hull resistance
? Venue: Transactions of the Royal Institution of Naval Architects Part B International
Journal of Small Craft Technology
? Year: 2015
? Type: Journal
? Subtype: Article
? Citations: 20
? DOI: 10.3940/rina.ijsc.2015.b2.172
? Scopus ID: 2-s2.0-84985010371
? Issn: 17400694
? Volume: 157
? Pages: 83-98
? Authors: Ferrando M.; Gaggero S.; Villa D.
? Quartile:
2015:
? Ocean Engineering (Q3, rank 63, percentile 29)
? Civil and Structural Engineering (Q4, rank 197, percentile 18)
? Source Id: 5000154004
? Author Ids: 7006903025;6503976905;56250522200
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Ferrando M.
83.
? Title: A new concept of a very high speed craft: Design issues
? Venue: 18th International Conference on Ships and Shipping Research Nav 2015
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85012909169
? Pages: 949-958
? Authors: Podenzana Bonvino Carlo; Ferrando Marco; Gaggero Stefano; Villa Diego; De
Mitri Davide; Gironi Cristina
? Source Id: 21100795196
? Author Ids: 6507106439;7006903025;6503976905;56250522200;57193311577;54953391200
? Authoraffiliationids: 60025153;60025153;60025153;60025153;;
? Corresponding: Podenzana Bonvino C.
84.
? Title: Numerical prediction of hull force for low velocity manoeuvring
? Venue: 18th International Conference on Ships and Shipping Research Nav 2015
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 10
? Scopus ID: 2-s2.0-85012886756
? Pages: 284-295
? Authors: Bruzzone Dario; Ruscelli Danilo; Villa Diego; Vivani Michele

? Source Id: 21100795196

? Author Ids: 6602292559;25926060700;56250522200;58090077400

? Authoraffiliationids: 60025153;60122238;60025153;60025153

? Corresponding: Bruzzone D.

85.

? Title: Ship performances forecasting at the Mediterranean scale: Evaluation of the

impact of meteocean forecasts on fuel savings for energy efficiency and weather routing

? Venue: 18th International Conference on Ships and Shipping Research Nav 2015

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 3

? Scopus ID: 2-s2.0-85012864356

? Pages: 538-549

? Authors: Orlandi Andrea; Capecchi Valerio; Rovai Luca; Benedetti Riccardo; Romanelli

Stefano; Ortolani Alberto; Coraddu Andrea; Villa Diego

? Source Id: 21100795196

? Author Ids: 8072174500;7004264270;55746384100;36953663700;6603602253;8116763300;55193
514900;56250522200

? Authoraffiliationids: 60082857;60082857-60021199;60082857-

60021199;60082857;60082857;60082857-60021199;;60025153

? Corresponding: Orlandi A.

86.

? Title: Numerical investigation of the impact of speed reduction on propeller
excitation

? Venue: Towards Green Marine Technology and Transport Proceedings of the 16th
International Congress of the International Maritime Association of the Mediterranean
Imam 2015

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? DOI: 10.1201/b18855-4

? Scopus ID: 2-s2.0-84959537464

? Pages: 11-22

? Authors: Gaggero S.; Gaggero T.; Villa D.; Rizzuto E.; Hallander J.

? Source Id: 21100448534

? Author Ids: 6503976905;55212255700;56250522200;6602173744;6506848509

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60113104

? Corresponding: Gaggero S.

87.

? Title: Powering and seakeeping forecasting for energy efficiency: Assessment of the
fuel savings potential for weather routing by in-service data and ensemble prediction
techniques

? Venue: Towards Green Marine Technology and Transport Proceedings of the 16th
International Congress of the International Maritime Association of the Mediterranean
Imam 2015

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 9

? DOI: 10.1201/b18855-6

? Scopus ID: 2-s2.0-84959533055

? Pages: 31-42

- ? Authors: Orlandi A.; Pasi F.; Capecchi V.; Coraddu A.; Villa D.
? Source Id: 21100448534
? Author Ids: 8072174500;6602117896;7004264270;55193514900;56250522200
? Authoraffiliationids: 60082857;60082857;60082857;60025153;60025153
? Corresponding: Orlandi A.
88.
? Title: Experimental and numerical investigations for modelling propeller cavitation noise
? Venue: Maritime Technology and Engineering Proceedings of Martech 2014 2nd International Conference on Maritime Technology and Engineering
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? DOI: 10.1201/b17494-93
? Scopus ID: 2-s2.0-84941710372
? Pages: 695-704
? Authors: Gaggero S.; Gaggero T.; Rizzuto E.; Tani G.; Villa D.; Viviani M.; Haimov E.; Hallander J.
? Source Id: 21100986078
? Author Ids: 6503976905;55212255700;6602173744;55355605100;56250522200;58090077400;56845776300;6506848509
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;119080767;60113104
? Corresponding: Gaggero S.
89.
? Title: Numerical simulation of added resistance in head waves: A RANSE and BEM approach
? Venue: Maritime Technology and Engineering Proceedings of Martech 2014 2nd International Conference on Maritime Technology and Engineering
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.1201/b17494-117
? Scopus ID: 2-s2.0-84941639829
? Pages: 877-884
? Authors: Ageno E.; Bruzzone D.; Villa D.
? Source Id: 21100407785
? Author Ids: 56737265100;6602292559;56250522200
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Ageno E.
90.
? Title: The Kriso container ship (KCS) test case: An open source overview
? Venue: Marine 2015 Computational Methods in Marine Engineering Vi
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 26
? Scopus ID: 2-s2.0-84938851772
? Pages: 735-749
? Authors: Gaggero Stefano; Villa Diego; Viviani Michele
? Keywords: CFD | KCS | OpenFOAM | Propellers | Self-propulsion
? Source Id: 21100403413

- ? Author Ids: 6503976905;56250522200;58090077400
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero S.
91.
? Title: Integration of seakeeping and powering computational techniques with meteo-marine forecasting data for in-service ship energy assessment
? Venue: Developments in Maritime Transportation and Exploitation of Sea Resources Proceedings of Imam 2013 15th International Congress of the International Maritime Association of the Mediterranean
? Year: 2014
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 20
? Scopus ID: 2-s2.0-84894441228
? Volume: 1
? Pages: 93-101
? Authors: Coraddu A.; Figari M.; Savio S.; Villa D.; Orlandi A.
? Source Id: 21100286947
? Author Ids: 55193514900;6507282370;7004161333;56250522200;8072174500
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60082857
? Corresponding: Coraddu A.
92.
? Title: Ship wake scaling and effect on propeller performances
? Venue: Developments in Maritime Transportation and Exploitation of Sea Resources Proceedings of Imam 2013 15th International Congress of the International Maritime Association of the Mediterranean
? Year: 2014
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Scopus ID: 2-s2.0-84894420929
? Volume: 1
? Pages: 13-21
? Authors: Gaggero Stefano; Villa Diego; Viviani Michele; Rizzato Enrico
? Source Id: 21100286947
? Author Ids: 6503976905;56250522200;58090077400;6602173744
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero S.
93.
? Title: An investigation on the discrepancies between RANSE and BEM approaches for the prediction of marine propeller unsteady performances in strongly non-homogeneous wakes
? Venue: Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering OMAE
? Year: 2014
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 30
? Doi: 10.1115/Omae2014-23831
? Scopus ID: 2-s2.0-84911932343
? Volume: 2
? Authors: Gaggero Stefano; Villa Diego; Viviani Michele
? Source Id: 91440
? Author Ids: 6503976905;56250522200;58090077400
? Authoraffiliationids: 60025153;60025153;60025153

- ? Corresponding: Gaggero S.
94.
? Title: A new approach in engine-propeller matching
? Venue: Sustainable Maritime Transportation and Exploitation of Sea Resources Proceedings of the 14th International Congress of the International Maritime Association of the Mediterranean Imam 2011
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 11
? Scopus ID: 2-s2.0-84896867822
? Volume: 2
? Pages: 631-637
? Authors: Coraddu A.; Gaggero S.; Villa D.; Figari M.
? Source Id: 21100291826
? Author Ids: 55193514900;6503976905;56250522200;6507282370
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Coraddu A.
95.
? Title: Investigation about wave profile effects on ship stability
? Venue: Sustainable Maritime Transportation and Exploitation of Sea Resources Proceedings of the 14th International Congress of the International Maritime Association of the Mediterranean Imam 2011
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 10
? Scopus ID: 2-s2.0-84896834074
? Volume: 1
? Pages: 143-149
? Authors: Coraddu A.; Gualeni P.; Villa D.
? Source Id: 21100291826
? Author Ids: 55193514900;15057843300;56250522200
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Coraddu A.
96.
? Title: Design and analysis of conventional and ducted propellers: A numerical approach
? Venue: Nav International Conference on Ship and Shipping Research
? Year: 2012
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Scopus ID: 2-s2.0-85012916827
? Issn: 22828397
? Volume: 0
? Authors: Gaggero Stefano; Villa Diego; Brizzolara Stefano
? Source Id: 21100875435
? Author Ids: 6503976905;56250522200;6603210760
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero S.
97.
? Title: Influence of raised invar edges on sloshing impact pressures numerical investigations

? Venue: Proceedings of the International Offshore and Polar Engineering Conference
? Year: 2011
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 6
? Scopus ID: 2-s2.0-80052717525
? Issn: 10986189
? eISSN: 15551792
? Pages: 25-31
? Authors: Moirod Nicolas; Diebold Louis; Gazzola Thomas; De Lauzon J^r^me; Brizzolara Stefano; Villa Diego
? Keywords: CFD | Impact | Invar edges | LNG terminals | OpenFOAM | Sloshing | Wedge
? 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)
2011:
? Ocean Engineering (Q2, rank 42, percentile 50)
? Energy Engineering and Power Technology (Q3, rank 91, percentile 41)
? Mechanical Engineering (Q3, rank 312, percentile 35)
? Source Id: 77392
? Author Ids: 23009137200;24830321800;35408834100;25960696700;6603210760;56250522200
? Authoraffiliationids: 60007398;60007398;60007398;60007398;60025153;60025153
? Corresponding: Moirod N.

98.

? Title: Simulation of ship in self propulsion with different CFD methods: From actuator disk to potential flow/RANS coupled solvers
? Venue: Rina Royal Institution of Naval Architects Developments in Marine Cfd Papers
? Year: 2011
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 18
? Scopus ID: 2-s2.0-80052578297
? Pages: 1-12
? Authors: Villa D.; Gaggero S.; Brizzolara Stefano
? Source Id: 19900193909
? Author Ids: 56250522200;6503976905;6603210760
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Villa D.

99.

? Title: Influence of raised invar edges on sloshing impact pressures-numerical investigations
? Venue: Advances in Marine Structures
? Year: 2011
? Type: Book
? Subtype: Book Chapter
? Citations: 0
? Scopus ID: 2-s2.0-85133245954
? Pages: 3-8
? Authors: Brizzolara Stefano; Villa Diego; Gazzola Thomas; Tryaskin Nikita; Moirod Nicolas; De Lauzon J^r^me; Diebold Louis
? Source Id: 21101094529
? Author Ids:

6603210760;56250522200;35408834100;55212338800;23009137200;25960696700;24830321800

? Authoraffiliationids: 60025153;60025153;60007398;60007398;60007398;60007398;60007398

? Corresponding: Brizzolara S.

100.

? Title: Influence of raised invar edges on sloshing impact pressures - Numerical investigations

? Venue: Advances in Marine Structures Proceedings of the 3rd International Conference on Marine Structures Marstruct 2011

? Year: 2011

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? DOI: 10.1201/b10771-3

? Scopus ID: 2-s2.0-84860829873

? Pages: 3-8

? Authors: Brizzolara Stefano; Villa Diego; Gazzola Thomas; Tryaskin Nikita; Moirod Nicolas; De Lauzon J^r^me; Diebold Louis

? Source Id: 21101010782

? Author Ids:

6603210760;56250522200;35408834100;55212338800;23009137200;25960696700;24830321800

? Authoraffiliationids: 60025153;60025153;60007398;60007398;60007398;60007398;60007398

? Corresponding: Brizzolara S.

101.

? Title: Nonlinear motions in head waves with a RANS and a potential code

? Venue: Journal of Hydrodynamics

? Year: 2010

? Type: Journal

? Subtype: Article

? Citations: 14

? Doi: 10.1016/S1001-6058(09)60189-X

? Scopus ID: 2-s2.0-84978062225

? Issn: 10016058

? Volume: 22

? Issue: 5 Suppl. 1

? Pages: 172-177

? Authors: Grasso Alessandro; Villa Diego; Brizzolara Stefano; Bruzzone Dario

? Keywords: BEM | Nonlinear Seakeeping | RANS

? Quartile:

2025:

? Modeling and Simulation (Q1, rank 42, percentile 88)

? Mechanical Engineering (Q1, rank 136, percentile 81)

? Condensed Matter Physics (Q1, rank 89, percentile 80)

? Mechanics of Materials (Q1, rank 95, percentile 77)

? Source Id: 28521

? Author Ids: 7103284952;56250522200;6603210760;6602292559

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? Corresponding: Grasso A.

102.

? Title: RANS and PANEL method for unsteady flow propeller analysis

? Venue: Journal of Hydrodynamics

? Year: 2010

? Type: Journal

? Subtype: Article

? Citations: 74

? Doi: 10.1016/S1001-6058(09)60253-5
? Scopus ID: 2-s2.0-84978039772
? Issn: 10016058
? Volume: 22
? Issue: 5 Suppl. 1
? Pages: 564-569
? Authors: Gaggero S.; Villa D.; Brizzolara S.
? Keywords: Panel Methods | RANS | Unsteady Flow
? Quartile:
2025:
? Modeling and Simulation (Q1, rank 42, percentile 88)
? Mechanical Engineering (Q1, rank 136, percentile 81)
? Condensed Matter Physics (Q1, rank 89, percentile 80)
? Mechanics of Materials (Q1, rank 95, percentile 77)
? Source Id: 28521
? Author Ids: 6503976905;56250522200;6603210760
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero S.

103.

? Title: CFD modelling for powering and propulsion of motor yachts, recent developments and applications of the marine CFD group (Genoa)
? Venue: International Conference Design Construction and Operation of Super and Mega Yachts Papers
? Year: 2009
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Scopus ID: 2-s2.0-70449595916
? Pages: 21-33
? Authors: Brizzolara S.; Gaggero S.; Grassi D.; Villa D.
? Source Id: 19400158462
? Author Ids: 6603210760;6503976905;36630335500;56250522200
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