

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome
Indirizzo

Telefono
Fax
E-mail
Google Scholar profile

DIEZ, Matteo

Consiglio Nazionale delle Ricerche, Istituto di Ingegneria del Mare (CNR-INM)

ESPERIENZA LAVORATIVA

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

Dal 18 Novembre 2019 a oggi

Consiglio Nazionale delle Ricerche, Istituto di Ingegneria del Mare (CNR-INM), già Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN

Via di Vallerano 139, 00128 Roma, Italia

Ente pubblico di ricerca

Primo Ricercatore II livello

Ricerca nel campo delle metodologie di ottimizzazione deterministiche e stocastiche per l'ingegneria marina e marittima, mediante simulazioni idrodinamiche ed accoppiate fluido-struttura; responsabilità di progetti di ricerca finanziati dall'US Navy Office of Naval Research; partecipazione a progetti finanziati dalla Commissione Europea nell'ambito del programma Horizon 2020 e da partner industriali e altri enti pubblici

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

Da 30 Dicembre 2016 a 17 Novembre 2019

Consiglio Nazionale delle Ricerche, Istituto di Ingegneria del Mare (CNR-INM), già Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN

Via di Vallerano 139, 00128 Roma, Italia

Ente pubblico di ricerca

Ricercatore III livello (con contratto a tempo indeterminato)

Ricerca nel campo delle metodologie di ottimizzazione deterministiche e stocastiche per l'ingegneria marina e marittima, mediante simulazioni idrodinamiche ed accoppiate fluido-struttura; responsabilità di progetti di ricerca finanziati dall'US Navy Office of Naval Research; partecipazione a progetti finanziati dalla Commissione Europea nell'ambito del programma Horizon 2020 e da partner industriali e altri enti pubblici

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

Da 2 Novembre 2012 a 29 Dicembre 2016

Consiglio Nazionale delle Ricerche, Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN

Via di Vallerano 139, 00128 Roma, Italia

Ente pubblico di ricerca

Ricercatore III livello (con contratto a tempo determinato)

Ricerca nel campo delle metodologie di ottimizzazione deterministiche e stocastiche per l'ingegneria marina e marittima, mediante simulazioni idrodinamiche ed accoppiate fluido-struttura; responsabilità di progetti di ricerca finanziati dall'US Navy Office of Naval Research

- Date (da – a)
- Nome e indirizzo del datore di

Da 3 Aprile 2011 a 28 Luglio 2017 (non continuativo)

The University of Iowa, IIHR—Hydroscience & Engineering

- lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

- Date (da – a)
- Nome e indirizzo del datore di lavoro

- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

- Date (da – a)
- Nome e indirizzo del datore di lavoro

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- Tipo di impiego
- Principali mansioni e responsabilità

- Date (da – a)
- Nome e indirizzo del datore di lavoro

- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

ISTRUZIONE E FORMAZIONE

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione
- Principali materie / abilità professionali oggetto dello studio
- Qualifica conseguita

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione

- Principali materie / abilità professionali oggetto dello studio

- Qualifica conseguita
- Voto

100 C. Maxwell Stanley Hydraulics Laboratory, Iowa City, Iowa 52242-1585, USA

Università

Visiting Researcher (ricercatore in visita)

Ricerca nel campo delle metodologie di ottimizzazione deterministiche e stocastiche per l'ingegneria marina e marittima, mediante simulazioni idrodinamiche ed accoppiate fluido-struttura, con enfasi su analisi ad alta fedeltà e loro validazione sperimentale; partecipazione a progetti di ricerca finanziati dall'US Navy Office of Naval Research

Da 1 Gennaio 2011 a 31 Ottobre 2012

Consiglio Nazionale delle Ricerche, Centro di Responsabilità Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN

Via di Vallerano 139, 00128 Roma, Italia

Ente pubblico di ricerca

Ricercatore (con contratto di collaborazione coordinata e continuativa)

Ricerca nel campo dell'ottimizzazione della forma di carena di un veicolo propulso per gravità da impiegare in un sistema di monitoraggio sottomarino finalizzata al miglioramento globale delle caratteristiche di manovrabilità; partecipazione a progetti di ricerca finanziati dall'UE e dall'US Navy Office of Naval Research

Da 3 Novembre 2008 a 31 Dicembre 2010

Istituto Nazionale per Studi ed Esperienze di Architettura Navale INSEAN

Via di Vallerano 139, 00128 Roma, Italia

Ente pubblico di ricerca

Ricercatore (con contratto di collaborazione coordinata e continuativa)

Studio e sviluppo di meta-modelli ibridi per l'approssimazione di funzioni complesse per l'analisi delle prestazioni idrodinamiche e dell'interazione fluido-struttura; ricerca nel campo delle metodologie di ottimizzazione deterministiche e stocastiche per l'ingegneria marina e marittima, mediante simulazioni multi-fedeltà; partecipazione a progetti di ricerca finanziati dall'US Navy Office of Naval Research

Da 1 Febbraio 2010 a 31 Gennaio 2012

Università Roma Tre, Dipartimento di Ingegneria Meccanica e Industriale

Via della Vasca Navale 79, 00146 Roma, Italia

Università

Assegnista di ricerca

Sviluppo di algoritmi multi-fedeltà per l'ottimizzazione multidisciplinare in presenza di variabili aleatorie

1 Novembre 2003 – 14 Marzo 2007 (XIX ciclo dottorato di ricerca)

Università Roma Tre, Dipartimento di Ingegneria Meccanica e Industriale

Tesi di dottorato di ricerca avente titolo "Sviluppo di modelli analitici e numerici per la progettazione multidisciplinare di velivoli per uso civile" (docente guida: Prof. Luigi Morino)

Dottorato di Ricerca in Ingegneria Meccanica e Industriale

1 Ottobre 1996 – 21 Luglio 2003

Università Roma Tre, Facoltà di Ingegneria

Tesi di laurea avente titolo: "Olografia digitale e decomposizione di Karhunen e Loève per l'identificazione modale di strutture" (relatore: Prof. Umberto lemma; correlatore: Prof. Luigi Morino)

Laurea in Ingegneria Meccanica (vecchio ordinamento)

110/110 e lode

**ONORI, PREMI, RICONOSCIMENTI,
BORSE DI STUDIO E
COLLABORAZIONE**

- Invited speaker (plenary lecture), 33rd Symposium on Naval Hydrodynamics, Osaka, Japan, October 18-23, 2020.
- Keynote speaker, International Conference on Uncertainty Quantification & Optimisation, UQOP2020, Brussels, 17-20 November 2020.
- Invited speaker (Campana E.F., Diez M.), FrontUQ19 Workshop on Frontiers of Uncertainty Quantification in Fluid Dynamics, Pisa, Italy, September 11-13, 2019.
- Consiglio Nazionale delle Ricerche; Short Term Mobility Program 2018; Research project: "High-fidelity Simulations of Ship Performance in Heavy Weather"; Proponent: Matteo Diez; Beneficiary: Andrea Serani; Host Institution: The University of Iowa; Host: Prof. F. Stern
- Consiglio Nazionale delle Ricerche; Short Term Mobility Program 2016; Research project "High-fidelity tightly-coupled CFD/CSM FSI/MDO for composite bottom panels of high-speed planing hulls slamming in waves"; Proponent and beneficiary: Matteo Diez; Host Institution: The University of Iowa; Host: Prof. F. Stern
- Consiglio Nazionale delle Ricerche; Short Term Mobility Program 2015; Research project "High fidelity CFD/FE two-way FSI for high-speed planing hull slamming with composite bottom panels"; Proponent and beneficiary: Matteo Diez; Host Institution: The University of Iowa; Host: Prof. F. Stern
- European Commission, programma SOCRATES/ERASMUS, 2000-2001; borsa di studio presso Faculty of Mechanical Engineering, Czech Technical University, Prague, Czech Republic

**PROGETTI DI RICERCA E GRANT
INTERNAZIONALI CON RUOLI DI
RESPONSABILITA' (PI)**

1. US Department of the Navy, Office of Naval Research (ONR), Broad Agency Announcement (BAA) N00014-17-S-BA001 "Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology," Naval International Cooperative Opportunities in Science and Technology Program (NICOP), grant N62909-18-1-2033 "Analytical and Numerical Methods for Identifying Principal Components of Heterogeneous Physical Data"; 11/2017 – 10/2020; Grantee: CNR-INSEAN, PI: Matteo Diez
2. US Department of the Navy, Office of Naval Research (ONR), subaward 14812100 of grant N000014-16-1-2747, "CFDShip-Iowa Code Development, FSI, V&V for Semi- and Deep-V Planing Hulls"; 9/2017 – 8/2019; Pass-through entity: The University of Iowa; Subrecipient: Consiglio Nazionale delle Ricerche; Subaward PI: Matteo Diez
3. Korea Institute of Science and Technology, Seoul, Korea, subaward S00597-01 of grant 19026000, "High-Fidelity CFD/CSD of Delft Catamaran Wet Deck Slamming and CFD of 5415M Large Amplitude Motions in Extreme Waves"; 11/2018 through 07/2019; Pass-through entity: The University of Iowa; Subrecipient: Consiglio Nazionale delle Ricerche; Subaward PI: Matteo Diez
4. US Department of the Navy, Office of Naval Research (ONR), Broad Agency Announcement (BAA) N00014-14-S-BA001 "Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology," Naval International Cooperative Opportunities in Science and Technology Program (NICOP), grant N62909-15-1-2016 "Stochastic SBD for Reduction of Added-Powering/Motions/Slamming for Surface Ships in Real Seas"; 5/2015 – 4/2017; Grantee: CNR-INSEAN, PI: Matteo Diez
5. US Department of the Navy, Office of Naval Research (ONR), Broad Agency Announcement (BAA) N00014-10-S-BA001 "Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology," Naval International Cooperative Opportunities in Science and Technology Program (NICOP), grant N62909-11-1-7011 "Stochastic Variable Physics Simulation-Based Design (SBD) for High Speed Waterjet Ships"; 9/2011 – 8/2014; Grantee: CNR-INSEAN, PI: Matteo Diez

**PROGETTI DI RICERCA E GRANT
INTERNAZIONALI E NAZIONALI
CON RUOLI DI
CORRESPONSABILITA' (Co-PI,
SUBTASK PI)**

1. European Commission, EASME/EMFF/2016/1.2.1.2/02/SI2.750174; "ASSESS, Advanced skills in safety, environment and Security at Sea"; 01/02/2017– 31/01/2019; Grantee: CNR-INM (formerly CNR-INSEAN)
2. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project "IV anno", Subproject 1 "Maritime Technologies," subtask SP1-LI1-WP1-UO03 "Riduzione dell'impatto del wave wash sull'ambiente costiero"; Dates: 1/1/2016 – 31/12/2017; Grantee: CNR-INSEAN
3. European Commission, Horizon 2020 Program, Research Project, ID: 689074, HOLISHIP "Holistic optimization of ship design and operation for life cycle"; Dates: 1/9/2016 – 31/8/2020; Grantee: CNR-INSEAN
4. Regione Lombardia, Programma Operativo Regionale 2014-2020, Obiettivo "Investimenti in Favore della Crescita e dell'Occupazione", Progetto: "Sistema Innovativo Integrato di Ventilazione Industriale in Materiali Compositi (VINMAC)"; Dates: 1/4/2016 – 6/12/2018; Grantee: CNR-INSEAN
5. US Office of Naval Research (ONR), grant N000141410584 "CFDShip-Iowa Code Development, Fluid-Structure Interaction and V and V for Semi-Planing and Deep-V Planing Hulls"; Dates: 1/4/2014 – 31/3/2017; Grantee: The University of Iowa
6. DLTM, Liguria District of Marine Technology, Italy; "USV PERMARE, Autonomous surface vehicle for marine environment monitoring system"; Dates: 1/2015 – 12/2016; Grantee: CNR-INSEAN
7. Ministero dell'Istruzione, dell'Università e della Ricerca, Progetto TRIM "Tecnologia e Ricerca Industriale per la Mobilità Marina"; Dates: 1/1/2014 – 31/12/2016; Grantee: CNR-INSEAN
8. Technip Italy, "Light catamaran floatover basin test campaign"; Dates: 1/2015 – 12/2016; Grantee: CNR-INSEAN
9. Technip Italy, "Numerical simulation and model test for catamaran float over installation/decommissioning"; Dates: 9/2014 – 9/2015; Grantee: CNR-INSEAN
10. US Office of Naval Research (ONR), grant N00014-14-1-0195 "Stochastic SBD for Reduction of Added-Powering/Motions/Slamming for Surface Ships in Real Seas"; Dates: 10/2013 – 9/2016; Grantee: The University of Iowa
11. US Office of Naval Research (ONR), grant N00014-13-1-0617 "Integrated High-Fidelity CFD/FE FSI Code Development and Benchmark Full-Scale Validation EFD for Slamming Analysis"; Dates: 10/2013 – 9/2015; Grantee: The University of Iowa
12. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 1 "Maritime Technologies," subtask SP1_WP2_AZ2_UO06 "CO2 emission reduction"; Dates: 1/2012 – 12/2016; Grantee: CNR-INSEAN
13. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 1 "Maritime Technologies," subtask SP1_WP2_AZ3_UO08 "Acoustic emission reduction"; Dates: 1/2012 – 12/2016; Grantee: CNR-INSEAN
14. Italian Ministry of Education, University and Research, National Research Program 2011-2013. RITMARE Flagship Project, Subproject 2 "Technologies for Sustainable Fishing," action SP2_WP3_AZ1 "Energy efficiency and environmental impact"; Dates: 1/2012 – 12/2016; and subtask SP2_WP3_AZ1_UO03 "Hull/propeller optimization"; Dates: 1/2012 – 12/2016; Grantee: CNR-INSEAN
15. US Office of Naval Research (ONR), grant N00014-1-11-0237 "Stochastic Variable Physics SBD for High Speed Waterjet Ships"; Dates: 10/2010 – 9/2013; Grantee: The University of Iowa
16. European Commission, FP7, Collaborative Project, grant no. ACP8-GA-2009-234118 "COSMA, Community Oriented Solutions to Minimise Aircraft Noise Annoyance"; Dates: 6/2009 - 3/2013; Grantee: University of Roma Tre
17. US Office of Naval Research (ONR), NICOP grant N62909-12-1-7082 "Experimental study of static drift and stochastic added resistance for the Delft Catamaran"; Dates: 5/2012 – 4/2015; Grantee: CNR-INSEAN, PI: Riccardo Broglio, Co-PIs: Matteo Diez, Luigi Fabbri

**ATTIVITA' ED INCARICHI
PROFESSIONALI ED EDITORIALI,
PARTECIPAZIONE A GRUPPI DI
LAVORO ANCHE CON RUOLI DI
RESPONSABILITA'**

18. US Office of Naval Research (ONR), NICOP grant N00014-08-1-0957 "Variable Physics Simulation-Based Design (SBD) for High Speed Waterjet Ships"; Dates: 4/2008 – 4/2011; Grantee: INSEAN
 19. Italian Navy, Project ViSIR "Numerical and experimental test of the interaction effects during replenishment at sea"; Dates: 10/2005 – 9/2008; Grantee: INSEAN
 20. European Commission, FP6, Specific Targeted Research Project, grant no. AST-CT-2003-502865 "SEFA, Sound Engineering For Aircraft"; Dates: 2/2004 - 1/2007; Grantee: University of Roma Tre
- Scientific coordinator, Multidisciplinary and Robust Optimization section, CNR Virtual Laboratory for Urban Intelligence (2020-present)
 - Co-Chair, NATO Science and Technology Organization, Applied Vehicle Technology task groups (2018-present)
 - Technical Team Member, NATO Science and Technology Organization, Applied Vehicle Technology task groups (2016-present)
 - Italian national expert, European Public Private Partnership (PPP) "Vessel for the future", Task Group 8 "Pan European Vessel Demonstrator" (2014-2017)
 - Member, ERCOFTAC (European Research Community on Flow, Turbulence and Combustion), Special Interest Group in Uncertainty Quantification in Industrial Analysis and Design (SIG45, 2012-oggi)
 - Reviewer for international research funding agencies and organizations:
 - Swiss National Science Foundation
 - Dutch Research Council (NWO)
 - Editorial board member of international journals
 - Algorithms (MDPI)
 - Reviewer for scholarly journals, conferences and international panels:
 - Acta Mechanica Sinica (Springer)
 - Algorithms (MDPI)
 - Applied Ocean Research (Elsevier)
 - Applied Sciences (MDPI)
 - Applied Soft Computing (Elsevier)
 - Cities (Elsevier)
 - Communications in Applied and Industrial Mathematics (SIMAI)
 - Computer and Fluids (Elsevier)
 - Computer Methods in applied Mechanics and Engineering (Elsevier)
 - Engineering Optimization (Taylor & Francis)
 - Journal of Computational Science (Elsevier)
 - Journal of Fluids and Structures (Elsevier)
 - Journal of Marine Science and Technology (Springer)
 - Journal of Ship Research (SNAME)
 - Meccanica (Springer)
 - Ocean Engineering (Elsevier)
 - Ship and Offshore Structures (Taylor & Francis)
 - Structural Multidisciplinary Optimization (Springer)
 - Symmetry (MDPI)
 - ASNE Technology Systems and Ships Symposia (ASNE)
 - SNAME Maritime Convention (SNAME)
 - SNAME Technical, Research & Development Panel 19, guidelines for "Ship Hull Optimization" (SNAME)
 - Member of international conference committees:
 - Local Scientific Committee, ICHD 2020, 14th International Conference on Hydrodynamics, postponed to 2022
 - Scientific Committee, Conference on Computational Methods in Marine Engineering (MARINE 2021), Edinburgh, Scotland, UK, on 2-4 June 2021
 - Scientific Committee, FrontUQ19 Workshop on Frontiers of Uncertainty Quantification in Fluid Dynamics – Pisa (Italy) – 11-13 September 2019
 - Program Committee, LOD 2019, 4th International Conference on Machine Learning, Optimization and Data Science, Volterra (Pisa), Italy, September 10-13, 2019

- Scientific Committee, FrontUQ19, Workshop on Frontiers of Uncertainty Quantification in Fluid Dynamics, Pisa, Italy, September 11-13, 2019
- Scientific Committee, Conference on Computational Methods in Marine Engineering (MARINE 2019), Gothenburg, Sweden, May 13-15, 2019
- Program Committee, LOD 2018 (4th International Conference on Machine Learning, Optimization and Data Science), Volterra (Pisa), Italy, September 13-16, 2018
- Conference invited/special session organizer and chair:
 - 2020 AIAA AVIATION Forum, Reno, NV, USA, June 15-19, 2020, Special Session on "Multi-Fidelity Methods for Vehicle Applications," organized with Dr. Phil Beran (AFRL) and Dr. Laura Mainini (UTRC)
 - SIAM Conference on Uncertainty Quantification (UQ20), March 24 - 27, 2020, mini symposium on "UQ for complex fluid dynamics problems in realistic applications (MS512: Part I and II)," organized with Dr. Lorenzo Tamellini (CNR-IMATI) and Prof. Maria Vittoria Salvetti (University of Pisa)
 - 30th European Conference on Operational Research (EURO 2019), Dublin, Ireland, June 23-26, 2019, Session on "Derivative-free Optimization: Methods and Applications in Industrial Problems," Co-Chair with Dr. Riccardo Pellegrini (CNR-INM)
 - VIII International Congress on Computational Methods in Marine Engineering (MARINE 2019), Goteborg, Sweden, May 13-15, 2019, Invited Session on "Multi-fidelity analysis and optimization methods in marine engineering," Co-Chair with Dr. Thomas Fu (US Dept. of the Navy Office of Naval Research)
 - VII International Congress on Computational Methods in Marine Engineering (MARINE 2017), Nantes, France, May 15-17, 2017, Invited Session on "Deterministic and stochastic simulation-based design analysis and optimization in marine engineering," Co-Chair with Prof. Charles Hirsch (Numeca International)
- Member, Ph.D. Examination Committee, Dept. of Shipping and Marine Technology, Division of Marine Technology, Chalmers University of Technology, Goteborg, Sweden, Ottobre 2015
- Membro di Commissione di Laurea Triennale e Specialistica/Vecchio Ordinamento, Università Rome Tre, Facoltà di Ingegneria, 2004-2013
- Membro di commissione di concorso per assegno di ricerca presso CNR
 - Presidente, Bando INSEAN-004-2016-RM per assegno post dottorale
 - Presidente, Bando INSEAN-005-2016-RM per assegno professionalizzante
 - Supplente, Bando INSEAN-007-2016-RM per assegno senior
 - Segretario, Bando INSEAN-003-2015-RM per assegno professionalizzante
- Abilitato all'esercizio della professione di Ingegnere ed iscritto all'Ordine degli Ingegneri della Provincia di Roma; Numero di iscrizione: 30813 Sezione A; Settore: Civile e ambientale, Industriale, Dell'Informazione; Specializzazione: Ingegneria Meccanica

CAPITOLI DI LIBRI

1. Cimillo, M., Diez, M. (2021), "Studio comparato di modellazione fluidodinamica degli Atrii Bioclimatici di quattro tipologie edilizie residenziali", in: Tucci, F., ADAPTIVE DESIGN. Spazi solari e bioclimatici in architettura | Solar and bioclimatic spaces in architecture, Altralinea Editrice, Firenze.
2. Cimillo, M., Diez, M., Pellegrini, R. (2021), "Modellazione e simulazione del comportamento prestazionale alla ventilazione naturale di tipologie a prevalenza residenziale con atrio", in: Tucci, F., Cimillo, M., Giampaolotti, M., Ruocco, A., EMERGENT HOUSING. Il quadro internazionale della sperimentazione, metodologie di simulazione | The international framework of experimentation, simulation methodologies, Altralinea Editrice, Firenze.
3. Diez, M., Volpi, S., Serani, A., Stern, F. and Campana, E.F., "Simulation-based design optimization by sequential multi-criterion adaptive sampling and dynamic radial basis functions," In: Advances in Evolutionary and Deterministic Methods for Design, Optimization and Control in Engineering and Sciences, Springer, Cham., 2019, pp. 213-228.
4. Serani A. and Diez M., "Dolphin Pod Optimization: A Nature-Inspired Deterministic Algorithm for Simulation-Based Design," In: Machine Learning, Optimization, and Big Data. MOD 2017, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 10710 LNCS, Springer, 2018, pp.50-62.

**ARTICOLI IN RIVISTE
INTERNAZIONALI CON REFEREE**

5. D'Agostino D., Serani A., Campana E.F. and Diez, M., "Nonlinear Methods for Design-Space Dimensionality Reduction in Shape Optimization," In: Machine Learning, Optimization, and Big Data. MOD 2017, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 10710 LNCS, Springer, 2018, pp. 121-132.
6. Pellegrini R., Serani A., Liuzzi G., Rinaldi F., Lucidi S., Campana E.F., Iemma U., Diez M., "Hybrid global/local derivative-free multi-objective optimization via deterministic particle swarm with local linesearch," In: Machine Learning, Optimization, and Big Data. MOD 2017, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 10710 LNCS, Springer, 2018, pp. 198-209.
7. Serani A., Diez M., Campana E.F., Fasano G., Peri D., Iemma U., "Globally Convergent Hybridization of Particle Swarm Optimization Using Line Search-Based Derivative-Free Techniques," In: Recent Advances in Swarm Intelligence and Evolutionary Computation, Studies in Computational Intelligence, Vol. 585, Yang, Xin-She (Ed.), Springer, 2015, ISBN 978-3-319-13825-1.
8. Diez M., Serani A., Leotardi C., Campana E.F., Peri D., Iemma U., Fasano G., Giove S., "A proposal of PSO particles' initialization for costly unconstrained optimization problems: ORTHOinit," 5th International Conference, ICSI 2014, Hefei, China, October 17-20, 2014, Proceedings, Part I. In: Advances in Swarm Intelligence, Lecture Notes in Computer Science Volume 8794, 2014, pp 126-133.
9. Campana E.F., Diez M., Fasano G., Peri D., "Initial particles position for PSO, in bound constrained optimization," 4th International Conference, ICSI 2013, Harbin, China, June 12-15, 2013, Proceedings, Part I, In: Advances in Swarm Intelligence, Lecture Notes in Computer Science Volume 7928, 2013, pp 112-119.
1. Leotardi, C., Serani, A., Diez, M., Campana, E.F., Fasano, G. and Gusso, R., 2021. "Dense conjugate initialization for deterministic PSO in applications: ORTHOinit+." *Applied Soft Computing*, 104, p.107121.
2. Serani, A., Stern, F., Campana, E.F. and Diez, M., 2021. "Hull-form stochastic optimization via computational-cost reduction methods." *Engineering with Computers*, pp.1-25.
3. Pellegrini, R., Serani, A., Liuzzi, G., Rinaldi, F., Lucidi, S., Diez, M., "Hybridization of Multi-Objective Deterministic Particle Swarm with Derivative-Free Local Searches," *Mathematics*, Volume 8, 546, 2020.
4. D'Agostino, D., Serani, A. and Diez, M., "Design-space assessment and dimensionality reduction: An off-line method for shape reparameterization in simulation-based optimization," *Ocean Engineering*, 197, 2020, p.106852.
5. Durante, D., Brogna, R., Diez, M., Olivieri, A., Campana, E.F. and Stern, F. Accurate experimental benchmark study of a catamaran in regular and irregular head waves including uncertainty quantification," *Ocean Engineering*, 195, 2020, p.106685.
6. Serani A., Pellegrini R., Wackers J., Jeanson C.-E., Queutey P., Visonneau M., and Diez M., "Adaptive multi-fidelity sampling for CFD-based optimization via radial basis function metamodels," *International Journal of Computational Fluid Dynamics*, in press, 2019.
7. Serani A., D'Agostino D., Campana E.F., Diez M., "Assessing the Interplay of Shape and Physical Parameters by Nonlinear Dimensionality Reduction Methods," *Journal of Ship Research*, accepted by editor, 2019.
8. Diez, M., Brogna, R., Durante, D., Olivieri, A., Campana, E.F. and Stern, F., "Statistical Assessment and Validation of Experimental and Computational Ship Response in Irregular Waves," *Journal of Verification, Validation and Uncertainty Quantification*, Vol. 3, No. 2, 2018, p.021004.
9. Campana, E.F., Diez, M., Liuzzi, G., Lucidi, S., Pellegrini, R., Piccialli, V., Rinaldi, F. and Serani, A., "A multi-objective DIRECT algorithm for ship hull optimization," *Computational Optimization and Applications*, Vol. 71, No. 1, 2018, pp. 53-72.
10. Diez M., Campana E.F., Stern F., "Stochastic optimization methods for ship resistance and operational efficiency via CFD," *Structural Multidisciplinary Optimization*, Vol. 57, No. 2, 2018, pp 735-758, DOI: 10.1007/s00158-017-1775-4.

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ESPERIENZE DI INSEGNAMENTO

2017-2018: **Professore a contratto**, Università degli Studi di Trieste, Dipartimento di Ingegneria e Architettura, Corso universitario di alta formazione, Master di II livello, insegnamento: Environmental Requirements and Energy Efficiency via Simulation (Lecture 3), nell'ambito del Master in Advanced Skills In Safety, Environment and Security at Sea

2011-2016: **Professore a contratto**, Università di Venezia IUAV, insegnamenti di "Simulation Based Design (SBD)," "Ottimizzazione," "Analisi fluidodinamica e tecniche di ottimizzazione al moto dell'aria degli edifici," e "Ottimizzazione multiobiettivo" Master Universitario di II livello "Processi Costruttivi Sostenibili"

2010-2013: **Professore a contratto**, Università Roma Tre Facoltà di Ingegneria, insegnamento di "Dinamica del volo," Laurea specialistica in Ingegneria Aeronautica

2006-2011: **Professore a contratto**, INARCH, Istituto Nazionale di Architettura in Roma, insegnamenti di "Simulazione fluidodinamica", "Simulazione termo-fluidodinamica," e "Simulation-based design", Master "Progettista di Architetture Sostenibili ed Esperto Nuove Tecnologie"

2003-2007: **Assistente all'insegnamento con contratti di supporto alla didattica**, Università Roma Tre, Facoltà di Ingegneria, insegnamenti di "Meccanica Razionale" (Prof. Luigi Morino), "Aeroelasticità Applicata" (Prof. Luigi Morino), "Dinamica Strutturale" (Prof. Umberto lemma), e "Progettazione Strutturale di Velivoli" (Prof. Umberto lemma)

MADRELINGUA

Italiano

ALTRE LINGUE

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

Inglese

Eccellente
Buono
Eccellente

Francese

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

Buono
Elementare
Buono

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI
(art. 46 D.P.R n. 445/2000)
DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ
(art. 47 D.P.R n. 445/2000)

Il sottoscritto DIEZ Matteo

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive;

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:

Che quanto dichiarato nel presente curriculum vitae in formato Europeo, comprensivo delle informazioni sulla produzione scientifico/tecnologica corrisponde a verità;

Autorizza il trattamento dei propri dati personali, ai sensi del D.lgs. 196 del 30 giugno 2003.

Data
9 Giugno 2021

Firma