

Europass Curriculum Vitae

Latest update

June 6, 2024



Personal information

Name / Surname

Address

Nationality

Mannarini, Gianandrea

https://www.cmcc.it/people/mannarini-gianandrea

Italian

Current position

Job title Employer Senior scientist

CMCC Foundation Euro-Mediterranean Center on Climate Change, Institute for Earth

System Predictions, Global Coastal Ocean Division

Place Lecce (Italy)

Research activity

My research focuses on evaluating the impact of maritime trade on climate change. I led the development of the open-source ship routing models VISIR-1 (coded in MAT-LAB) and VISIR-2 (in Python). My interests include data mining from shipping observational datasets and the evolution of regulatory frameworks at both European and international levels. I am also involved in research projects with Digital Twins and data analytics.

I have experience in coordinating task teams composed of cross-disciplinary developers and PhD researchers, managing teams of varying size and project duration.

Over time, I have been affiliated with IMarEST, RINA, EGU

I am keen on sharing and disseminating scientific results.

Projects management responsibilities

- Horizon Europe MISSION project "Maritime just-in-time optimization interoperable port call and voyage optimization tool: CMCC scientific lead and WP2.4 lead

- Horizon Europe EDITO-Model Lab project "European Digital Twin Ocean: WP6 "End-to-end demonstrations for Focus Applications" contributor

Italy-Croatia Interreg V-A, Programme Priority Axis "Maritime transport", GUTTA project: Project Coordinator

- Horizon-2020 AtlantOS project "Optimizing and Enhancing the Integrated Atlantic Ocean Observing System: CMCC scientific lead

Publication and citation services

ORCID

0000-0001-9205-7765

Scopus

6507693465

Publons (WoS)

M-6124-2019

Social media presence

LinkedIn

https://www.linkedin.com/in/gianandreamannarini/

ResearchGate

https://www.researchgate.net/profile/Gianandrea-Mannarini

Selected Publications

- 5) G. Mannarini, M. L. Salinas, L. Carelli, N. Petacco, and J. Orović. VISIR-2: ship weather routing in Python, Geoscientific Model Development 17, 4355–4382, 2024 DOI:10.5194/gmd-17-4355-2024
- 4) G. Mannarini, D. Subramani, P. Lermusiaux, and N. Pinardi. Graph-Search and Differential Equations for Time-Optimal Vessel Route Planning in Dynamic Ocean Waves, IEEE Transactions on Intelligent Transportation Systems, vol. 21, no. 8, 2020 DOI: 10.1109/TITS.2019.2935614
- 3) G. Mannarini, L. Carelli, and A. Salhi. EU-MRV: an analysis of 2018's Ro-Pax CO2 data. In 21st IEEE International Conference on Mobile Data Management (MDM), 2020 DOI:10.1109/MDM48529.2020.00065
- 2) G. Mannarini and L. Carelli. VISIR-1.b: ocean surface gravity waves and currents for energy-efficient navigation, Geoscientific Model Development 12, 3449–3480, 2019 DOI:10.5194/gmd-12-3449-2019
- 1) G. Mannarini, L. Carelli, D. Zissis, G. Spiliopoulos, and K. Chatzikokolakis. Preliminary inter-comparison of AIS data and optimal ship tracks, TransNav, 13(1):53–61, 2019. DOI:10.12716/1001.13.01.04

Prizes and Awards

2019

Best presentation award for "Preliminary Inter-comparison of AIS Data and Optimal Ship Tracks" talk given at the 13th International Conference on Marine Navigation and Safety of Sea Transportation, Gdynia (Poland), June 14, 2019

2011

Boeing prize for meritorious invention disclosure "Probability Density Function -based calculation of CE90" (90th percentile of Circular Error), Jeppesen Italia, December 2011

2007

"Cultore della Materia" (i.e., Expert on Subject) in "General Physics I" at the Università del Salento, Lecce, Italy, February 2, 2007

Education and Training

MSc

Physics, Università degli Studi di Pisa, Italy (2000)

PhD

Humboldt-Universität zu Berlin, Germany (2005)

Declaration

I hereby give my consent for the use of the data provided in this CV in accordance with Regulation 679/2016 of the European Parliament ("GDPR").