



Personal information

Name / Surname

Mannarini, Gianandrea

Address

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

Personal Email

mailto:Gianandrea.Mannarini@cmcc.it

Nationality

Italian

Current position

Job title

Senior scientist

Employer

Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)

Place

Lecce (Italy)

Research activity

- Operational voyage optimization through the VISIR model: reducing CO₂ emissions from maritime transportation through metocean forecasting products, see the GUTTA-VISIR service.
- Assessment of the environmental impact of maritime transportation, especially in reference to climate change (e.g. IMO Initial Strategy, EU fitfor55, UN Ocean Decade)

Recent projects and responsibilities

- Italy-Croatia Interreg V-A, Programme Priority Axis "Maritime transport", *GUTTA* (2019-2022): Project Coordinator
- "Applications" Research Unit of the OPA Division of CMCC (2019-): Leader
- IMarEST(Institute of Marine Engineering, Science & Technology, 2019-): Member of the GHG policy group
- 2nd Maritime Big Data Workshop (June 30, 2020): Programme Committee Member

Publication and citation services

Scopus

6507693465

Publons (WoS)

M-6124-2019

Social media presence

LinkedIn
ResearchGate

<https://www.linkedin.com/in/gianandreamannarini/>
<https://www.researchgate.net/profile/Gianandrea-Mannarini>

Selected Publications

- 1) G. Mannarini, L. Carelli, J. Orović, C. P. Martinkus, and G. Coppini. Towards Least-CO₂ Ferry Routes in the Adriatic Sea. *Journal of Marine Science and Engineering*, 9(2), 2021. DOI:10.3390/jmse9020115
- 2) 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
- 3) 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
- 4) 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
- 5) 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

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| 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

Dates	February 2001 to June 2005
Title of qualification awarded	Doctor rerum naturalium (Dr. rer. nat.)
Name and type of organization providing education and training	Humboldt-Universität zu Berlin, Germany
Level in national classification	"magna cum laude"
Dates	October 1995 to October 2000
Title of qualification awarded	Dottore in Fisica (Dott.)
Name and type of organization providing education and training	Università degli Studi di Pisa, Italy
Level in national classification	"110 e lode"