

## CV Francesca De Serio

### Personal information

First name/Last name: Francesca De Serio

Affiliation: 1. Polytechnic University of Bari (Poliba), Department of Civil, Environmental, Land, Building Engineering and Chemistry (DICATECH), Bari; 2. CoNISMa (National Interuniversity Consortium for Marine Science), Rome.

<http://dicatechpoliba.it/dicatech-scheda-personale?idp=251>

[orcid.org/0000-0002-2326-9841](http://orcid.org/0000-0002-2326-9841)

### Current position

- Since June 1<sup>st</sup> 2021: Associate Professor of Hydraulics (ICAR/01) at the Polytechnic University of Bari
- Since June 3<sup>rd</sup> 2021: Qualification as Full Professor in the Academic Discipline 'Hydraulics, Hydrology, Hydraulic and Maritime Constructions' (08/A1), passed the Italian National Academic Qualification (ASN).

### Past positions

- 2018-2021: Senior Researcher (RTDb) of Hydraulics (ICAR/01) at the Polytechnic University of Bari
- 2001-2018: Graduated Technician at the Polytechnic University of Bari
- 2000-2001: Engineer and Project Manager at Acquedotto Pugliese spa, Bari, working in the Technical Division of the enterprise, addressing drinking water adduction networks, sewers and treatment plants.
- 1997: Winner of the public national selection for a post-graduated traineeship for 'Studies and researches for hydrological planning' (B.U.R.P. 53/1997)

### Education

- Feb 2001: PhD in Hydraulic Engineering for Environment and Land (cycle XIII), defending the thesis on 'Currents circulation in the Adriatic Sea'. University of Calabria.
- Nov 1996: Graduation with full marks and honors in Civil Engineering, defending the thesis on 'Experimental study on motion field generated by regular waves'. Polytechnic University of Bari.

### Academic institutional roles

- 2018-19: Tutor of the Master's Degree Course in Environmental Engineering of the DICATECH
- 2018-19 and 2020-present: Member of the Review Group of the Master's Degree Course in Environmental Engineering.
- 2019-20: Designated Expert member of the Board for the qualification of Engineers to exert their professional activity (D.R. 417 of 27.05.2019)
- 2019-20: Tutor of the Bachelor's Degree Course in Civil and Environmental Engineering of the DICATECH.
- 2019-present: DICATECH Erasmus Coordinator for the Master's Degree Course in Environmental Engineering, the Master's Degree Course in Civil Engineering and for the Bachelor's Degree Course in Civil and Environmental Engineering
- 2020-present: Member of the Academic Board of the School of Doctorate in Risk, Environmental, Territorial and Building Development, Polytechnic University of Bari.

### Teaching

1999 - 2013: lectures in the under-graduated courses of: Maritime Hydraulics; Hydraulics; Fluid Mechanics; Hydraulic Constructions; Environmental Hydraulics; Hydraulic Measurements and Instrumentations, at Poliba-DICATECH.

2013-14, 2014-15 and 2015-16: adjunct professor, teaching the post-graduate course of 'Lab and Field Data Acquisition and Processing' in the School of Doctorate of the Poliba (16 hours/year).

2016-17 and 2017-18: adjunct professor, teaching the post-graduate course of 'Lab and Field Data Acquisition and Processing in Hydraulics' in the School of Doctorate of the Poliba (24 hours/year).

2016-17 and 2017-18: adjunct professor, teaching the under-graduate course of 'Maritime Hydraulics' in the Master's Degree Course of Environmental Engineering at Poliba-DICATECH (48 hours/year).

2018-19: in charge of the under-graduate course of 'Maritime Hydraulics' in the Master's Degree Course of Environmental Engineering at Poliba-DICATECH (60 hours/year).

2019-20: in charge of the under-graduate course of 'Hydraulics' in the Bachelor's Degree Course of Civil and Environmental Engineering at Poliba-DICATECH (60 hours/year).

2020-21: in charge of the under-graduate course of 'Maritime Hydraulics' in the Master's Degree Course of Environmental Engineering at Poliba-DICATECH (60 hours/year).

2021-22: in charge of the under-graduate courses: 'Maritime Hydraulics' in the Master's Degree Course of Environmental Engineering at Poliba-DICATECH (60 hours/year); 'Environmental Hydraulics' in the Bachelor's Degree Course of Management Engineering at the DMMM (Dpt. of Mechanics, Mathematics and Management) of Poliba (60 hours/year); 'Hydraulics in buildings' in the Bachelor's Degree Course of Building Engineering at Poliba-DICATECH (60 hours/year).

### **Tutorship**

- Since 2001: Co-Tutor of more than 20 Master/Bachelor students.
- Co-Supervisor of two post-graduate students for traineeship activities carried out in the laboratory LIC, related to breaking waves and floods (Italian Hydraulic Group, GII placement In Water Engineering 2015 and 2017)
- 2018-present: co-Supervisor of one PhD student; PhD project proposed by prof De Serio, selected and funded by the Italian Ministry of Research and University in the frame of PON RI Doctoral Studies for innovation with industrial trend, XXXIV cycle, 2018-2019.

### **Research:**

- Focused on Environmental Hydraulics and Maritime Hydraulics, with specific expertise in:

Processes of turbulence and sediment transport induced by regular/irregular wave breaking, with interest in formation and spreading of coherent structures; Monitoring of semi enclosed basins and data analysis and processing; Hydrodynamics in coastal sites; Interaction of flow with aquatic vegetation and feedbacks to sediment transport, chemical flux and ecosystem function, due to dispersion mechanisms; Jets in crossflow and interacting with obstructions; Jets in rotating basins affected by Coriolis force.

Expert in numerical modelling and laboratory activities with ability to use innovative measuring instruments/techniques, such as Laser Doppler Anemometry, Acoustic Doppler Velocimetry, Acoustic Doppler Current Profilers and Particle Image Velocimetry.

Training and know how acquired also during mobilities carried out as winner of the following national selections for Erasmus+ Staff Training Mobility: 1. TUCEP call 2017: Mobility carried out at Universitat Politècnica de Catalunya - School of Civil Engineering, Barcelona (ES) in May 2018 (one week); 2. TUCEP call 2018: Mobility carried out at Hamburg Universitat, Hamburg (DE) July 2019 (one week); 3. TUCEP call of 2019: Mobility will be carried out at LEGI Grenoble (FR) in May 2022 (postponed due to COVID-19 restrictions).

- Dissemination of research, since 2001, participating to more than 30 international conferences and co-organizing:
  - International Workshop 'State of the Art in Hydraulic Engineering', LIC, Poliba, 2004.
  - VII National Symposium on 'Sustainable Urban Drainage', Poliba, 2009.
  - National Symposium 'Wastewater depuration for reuse', Poliba, 2010.
  - National Workshop 'Numerical Modelling for marine environment', organized by DHI Italy and Poliba-DICATECh, 2014.

- Co-organizer and co-chair of the Session 'Turbulent Mixing in Riverine, Estuarine and Coastal Areas', at the 8th International Symposium on Environmental Hydraulics, Notre Dame - Southbend (USA), 2018.

### Patents

- Patent 'Sediment trap for marine sediments with horizontal flow, (authors: Mossa, Orsi, Ben Meftah, Petrillo, De Serio, Tucci. 2021, 10201900000931, Politecnico di Bari).

### Editorial and reviewing activity

- 2016-present: Associate Editor of the journal 'Estuarine coastal and shelf science' (Elsevier)
- 2017-present: Editorial Board Member of 'Journal of Marine Science and Engineering' (MDPI).
- 2019: Expert Reviewer of Research Proposal Evaluation Panels: German-Israeli Foundation for Scientific Research and Development (GIF);
- 2021: Designated Reviewer in the PhD Boards of University of Padova and University of Messina.
- Reviewer of: Journal of Applied Water Engineering and Research (Taylor & Francis Publisher); Estuarine, Coastal and Shelf Science (Elsevier); Journal of Hydraulic Research (IAHR Publisher); Journal of Coastal Research (CERF Publisher); Environmental Fluid Mechanics (Springer Publisher); Water (MDPI); Journal of Marine Science and Engineering (MDPI); Hydrological Sciences Journal (Taylor & Francis Publisher); Water Resources Research (AGU); Scientific Reports (Springer Nature); Physics of Fluids (AIP Publishing); International Journal of Sediment Research (Elsevier); Environmental Modelling and Software (Elsevier); Journal of Physical Oceanography(AMS).

### Research projects and agreements:

#### Participation to:

- 1999-2001: International research project INTERREG II, Italy – Albania and INTERREG II, Italy – Greece, funded by EU (POP)
- 2001-03: PRIN 2001 'Hydrodynamic and morphodynamic behavior of emergent barriers'
- 2003–10: POR Puglia 2000–2006 'Coastal monitoring and management of a meteomarine network for the Apulian coast'
- 2004-2006: PRIN 2004 'Experimental study of waves generated by landslides, propagating around an island'
- 2004-2008: IMCA (Integrated Monitoring of Coastal Areas)
- 2006-2008: PRIN 2006 'Flow measurements in natural channels'
- 2006-2008: INTERREG III, Italy – Albania, funded by EU (POP)
- 2007-2009: PRIN 2008 'Flow measurements in natural channels'.
- 2011-2015: European research project COCONET - Towards COast to COast NETWORKS of marine protected areas, FP7-OCEAN-2011
- 2012: FRA 2012 'Field measurements and numerical simulations of marine currents and pollutants spreading'
- 2012-2016: Italian flagship project RITMARE, WP 4 Coastal Modelling
- 2004 – 2005: agreement between the Laboratory of Coastal Engineering (LIC) of the Polytechnic University of Bari and AQP Progettazione for the activity titled: Dynamic study of the residual flow discharged by the desalination plant of Western Bari (Italy).
- 2011 – 2012: agreement between the Laboratory of Coastal Engineering (LIC) of the Polytechnic University of Bari and the Port Authority (Autorità Portuale del Levante) for the activity titled: Meteomarine climate in the port of Bari and numerical modelling of the internal and external circulation and wave mechanics both in the present state and with planned structures.
- 2013: agreement between the Laboratory of Coastal Engineering (LIC) of the Polytechnic University of Bari and the Port Authority (Autorità Portuale del Levante) for the activity titled: Studies on currents circulation and dredged sediments in the ports of Bari, Barletta e Monopoli (Italy).
- 2013-2014: agreement between the ARPA Puglia and the DICATECh of the Polytechnic University of Bari for the activity titled: Technical-scientific activity to study the interactions between the environmental system Mar Piccolo and the polluted inflows from primary and secondary sources (Italy).

- 2014: agreement between AQP s.p.a. and CoNISMa for the activity titled: Study on the submarine outfall from Bari Est sewer plant (Italy).
- 2014: agreement between AQP s.p.a. and CoNISMa for the activity titled: Study on the submarine outfall from Bari West sewer plant (Italy).
- Dec. 2014 – Dec. 2016: agreement between the Agreement between DICATECh of the Polytechnic University of Bari and the Special Commissioner for urgent remediation works in Taranto city (Italy).
- 2017 – 2018: agreement between CoNISMa and AQP s.p.a. for the activity titled: Technical and scientific support in the planning of the submarine pipe serving the sewing plant of Lesina Marina (FG, Italy).
- 2018: agreement between CoNISMa and Isole Tremiti Municipality for the activity titled: Study of currents and of environmental impact in the Tremiti Isles (Italy).
- 2018: agreement between CoNISMa and ARPA Puglia for the activity titled: Monitoring the coastal-marine environment and the noise production during works completing the port infrastructures in the area Pizzoli-Marisabella (Port of Bari, Italy).
- 2018: agreement between the DICATECh – LIC and Apulia Region for the activity titled: Physical models to verify the reliability of projects involving turistic ports as planned in the regional program.

#### Principal Investigator

- 2017: International research project 'JETS interacting with VEgetation in Rotating Basin (JEVERB)', Transnational Access Project in the frame of the European Programm H2020 Hydralab+ Adaptation for Climate Change (budget: 30K euro). LEGI, Grenoble (FR).
- 2019: FRA 2019 'Analysis of the hydrodynamic flow around a submerged airfoil', funded by Poliba
- 2019: Agreement between the Polytechnic University of Bari (Hydraulic Research Unit) and the Apulia Region for 'Study of the interventions on the hydrographic basin of the river Canale Reale (Italy)'. Co-Principal Investigator.
- 2020 Agreement between the Polytechnic University of Bari (Hydraulic Research Unit) and the Apulia Region for the activity titled: Aquaculture 4.0. Co-Principal Investigator.
- 2020: International research project 'SEdiments Dynamics driven through VEgetation by COastal curreNTs, Transnational Access Project in the frame of the European Programm 'ASSEMBLE PLUS project' (European Union's Horizon 2020, Grant Agreement No. 730984). Scottish Ocean Institute, Scotland UK.
- 2021: FRA 2021, titled 'Coherent structures induced by breaking waves and their interaction with surrounding environment', funded by Poliba.

#### **Scientific Production:**

- Peer-reviewed Journal Papers (Scopus/ISI):
  1. De Serio F, Mossa M (2006). Experimental study on the hydrodynamics of regular breaking waves. *Coastal Engineering*, 53: 99-113. In the 'Science Direct Top 25 Hottest' for the period Jan-March 2006.
  2. Ben Meftah M, De Serio F, Mossa M, Pollio A. (2007). Analysis of the velocity field in a large rectangular channel with lateral shockwave. *Environmental Fluid Mechanics*, 7 (6): 519-536.
  3. De Serio F, Malcangio D, Mossa M (2007). Circulation in a Southern Italy coastal basin: modelling and field measurements. *Continental Shelf Research*, 27: 779-797.
  4. Ben Meftah M, De Serio F, Mossa M, Pollio A. (2008). Experimental study of recirculating flows generated by lateral shock waves in very large channels. *Environmental Fluid Mechanics*, 8: 215-238.
  5. Bruno D., De Serio F, Mossa M (2009). The FUNWAVE model application and its validation using laboratory data. *Coastal Engineering*, 56(7): 773-787.
  6. Ben Meftah M, Damiani L., De Serio F, Mossa M, Petrillo AF. (2011). Analysis of current circulation in the port of Bari. *Geo-Eco-Marina*, vol. 17.

7. De Serio F, Mossa M (2013). A laboratory study of irregular shoaling waves. *Experiments in Fluids*, 54: 1536.
8. De Serio F, Ben Meftah M, Mossa M (2014). Monitoring and modelling of coastal currents and wastewater discharge: A case study. *Geo-Eco-Marina*, vol. 20.
9. De Serio F, Mossa M (2014). Streamwise velocity profiles in coastal currents. *Environmental Fluid Mechanics*, vol. 14 (4): 895-918.
10. Ben Meftah M, De Serio F, Mossa M (2014). Hydrodynamic behavior in the outer shear layer of partly obstructed open channels. *Physics of Fluids*, 26 (6): 065102.
11. Ben Meftah M, De Serio F, Malcangio D, Mossa M, Petrillo AF. (2015). Experimental study of a vertical jet in a vegetated crossflow. *Journal of Environmental Management*, 9(164): 19-31.
12. De Serio F, Mossa M (2015). Analysis of mean velocity and turbulence measurements with ADCPs. *Advances in Water Resources*, 05: 172-185.
13. De Serio F, Mossa M (2016). Assessment of classical and approximated models estimating regular waves kinematics. *Ocean Engineering*, 126: 176-186.
14. De Serio F, Mossa M (2016). Environmental monitoring in the Mar Grande basin (Ionian Sea, Southern Italy). *Environmental Science and Pollution Research*, 23 (13): 12662–12674.
15. De Serio F, Mossa M (2016). Assessment of hydrodynamics, biochemical parameters and eddy diffusivity in a semi-enclosed Ionian basin. *Deep-Sea Research. Part 2. Topical Studies in Oceanography*. DOI: 10.1016/j.dsr2.2016.04.00.
16. Mossa M, De Serio F (2016). Rethinking the process of detrainment: jets in obstructed natural flows. *Scientific Reports*, Nature Publishing Group, 6: 39103.
17. Mali M., De Serio F, Dell'Anna M., Mastroianni P., Damiani L., Mossa M (2017). Enhancing the performance of hazard indexes in assessing hot spots of harbour areas by considering hydrodynamic parameters. *Ecological Indicators*, 73: 38-45.
18. Armenio E, De Serio F, Mossa M (2017). Analysis of data characterizing tide and current fluxes in coastal basins, *Hydrology and Earth System Science*, 21: 1–14.
19. Mossa M, Ben Meftah M, De Serio F, Nepf HM. (2017). How vegetation in flows modify the turbulent mixing and spreading of jets, *Scientific Reports*, 7 (1): 6587.
20. Ben Meftah M, Malcangio D, De Serio F, Mossa M (2018). Vertical dense jet in flowing current. *Environmental Fluid Mechanics*, 18 (1): 75-96.
21. De Serio F, Mossa M (2018). Meteo and hydrodynamic measurements to detect physical processes in confined shallow seas. *Sensors*, 18(1): 280.
22. De Serio F, Ben Meftah M, Mossa M, Termini D. (2018). Experimental investigation on dispersion mechanisms in rigid and flexible vegetated beds. *Advances in Water Resources*, 120: 98-113.
23. Peruzzo P., De Serio F, Defina A, Mossa M (2018). Wave height attenuation and flow resistance due to emergent or near-emergent vegetation. *Water*, 10(4), 402.
24. De Padova D, Brocchini M, Buriani F, Corvaro S, De Serio F, Mossa M, Sibilla S (2018). Experimental and numerical investigation of pre-breaking and breaking vorticity within a plunging breaker. *Water*, 10(4), 387.
25. Armenio E, De Serio F, Mossa M, (2018). Environmental technologies to safeguard coastal heritage. *SCIRES*, 8(1): 61-78.
26. De Serio F, Armenio E, Mossa M, Petrillo AF (2018). How to define priorities in coastal vulnerability assessment. *Geosciences*, 8(11), 415.
27. Ben Meftah M, De Serio F, Mossa M (2018). Alteration of hydrological conditions and spreading processes in vegetated natural flows. *Italian Journal of Engineering Geology and Environment*, 1, 75-96.
28. Armenio E, Ben Meftah M, De Padova D, De Serio F, Mossa M (2019). Monitoring systems and numerical models to study coastal sites. *Sensors*, 19(7),1552.
29. Tognin D, Peruzzo P, De Serio F, Ben Meftah M, Carniello L, Defina A, Mossa M (2019). Experimental setup and measuring system to study solitary wave interaction with rigid emergent vegetation, *Sensors*, 19(8), 178.

30. De Padova D, Ben Meftah M, De Serio F, Mossa M, Sibilla S (2019). Characteristics of breaking vorticity in spilling and plunging waves investigated numerically by SPH, *Environmental Fluid Mechanics*, published on line, June.
31. Armenio E, De Serio F, Mossa M, Petrillo AF (2019). Coastline evolution based on statistical analysis and modeling, *Natural hazards and earth system sciences*, 19(9), 1937–195
32. De Serio F, Mossa M (2019). Experimental observations of turbulent events in the surfzone, *Journal of Marine Science and Engineering*, 7(10), 332.
33. Ben Meftah M, De Serio F, De Padova D, Mossa, M (2020). Hydrodynamic structure with scour hole downstream of bed sills, *Water*, 12(1), 186.
34. De Serio F, Armenio E, Ben Meftah M, Capasso G, Corbelli V, De Padova D, De Pascalis F, Di Bernardino A, Leuzzi G, Monti P, Pini, A, Velardo R, Mossa M (2020). Detecting sensitive areas in confined shallow basins, *Environmental Modelling and Software*, 126 (104659).
35. De Padova D, Ben Meftah M, De Serio F, Mossa M, Sibilla S (2020). Characteristics of breaking vorticity in spilling and plunging waves investigated numerically by SPH, *Environmental Fluid Mechanics*, 20(2), 233-260.
36. De Padova D, Ben Meftah M, De Serio F, Mossa M (2020). Management of dredging activities in a highly vulnerable site: Simulation modelling and monitoring activity, *Journal of Marine Science and Engineering*, 8(12), 1020, pp. 1-18.
37. Ben Meftah M, De Padova D, De Serio F, Mossa M (2021). Secondary Currents with Scour Hole at Grade Control Structures, *Water*, 13, 319.
38. Mossa M, Armenio E, Ben Meftah M, Bruno MF, De Padova D, De Serio F (2021). Meteorological and hydrodynamic data in the Mar Grande and Mar Piccolo, Italy, of the Coastal Engineering Laboratory (LIC) Survey, winter and summer 2015, *Earth Syst. Sci. Data*, 13, 599–607.
39. Mossa M, Goldshmid R, Liberzon D, Negretti ME, Sommeria J, Termini D, De Serio F (2021). Quasi-geostrophic jet-like flow with obstructions. *Journal of Fluid Mechanics*, 921, A12.  
doi:10.1017/jfm.2021.501
40. De Serio F, H. Goldshmid R, Liberzon D, Mossa M, Negretti ME, Pisaturo GR, Righetti M, Sommeria J, Termini D, Valran T, Viboud S (2021). Turbulent jet through porous obstructions under Coriolis effect: an experimental investigation, *Exp in Fluids*, 62: 218.

▪ Peer-reviewed Conference Papers (indexed in Scopus):

1. De Serio F, Malcangio D (2005). Modelling circulation in a Southern Italy coastal basin, *Proc. Coastal Engineering VII, WIT Transactions on the Built Environment*, 78: 157-166.
2. De Serio F, Mossa M (2006). On some models of regular waves kinematics, *Proc. ISOPE 2006, San Francisco (USA)*: 439-446.
3. Ben Meftah M, De Serio F, Malcangio D, Mossa M (2006). Experimental study of the impact of flexible and rigid vegetation on a crossflow, *Proc. River Flow 2006*,1: 603-611.
4. Ben Meftah M, De Serio F, Mossa M, Petrillo AF, Pollio A (2007). Current circulation in the Gulf of Taranto: numeric simulations and experimental data analysis, *Proc. Flucome 2007, Tallahassee, Florida (USA)*, 2: 891-902.
5. De Serio F, Mossa M (2010). Velocity profiles of sea currents, *6th International Symposium on Environmental Hydraulics, Athens (Greece)*, 1: 451-456.
6. Ben Meftah M, De Serio F, Mossa M (2012). Shock wave/boundary layer interaction in hydraulic jumps in very large channels, *Proc. River Flow 2012*, Ed. Taylor & Francis Ltd, 1: 131-137.
7. Malcangio D, Ben Meftah M, Chiaia G, De Serio F, Mossa M, Petrillo AF (2016). Experimental studies on vertical dense jets in a crossflow, *Proc. River Flow 2016*: 890-897.
8. Ben Meftah M, De Serio F, Malcangio D, Mossa M (2016). Resistance and boundary shear in a partly obstructed channel flow, *Proc. River Flow 2016*: 795-801.
9. Armenio E, Ben Meftah M, Bruno MF, De Padova D, De Pascalis F, De Serio F, Di Bernardino A, Mossa M, Leuzzi G, Monti P (2016). Semi enclosed basin monitoring and analysis of meteo, wave, tide and current data. *Proc. IEEE EESMS 2016*: 174-179.

10. Di Bernardino A, De Serio F, Mossa M, Pini A, Leuzzi G, Monti P (2016). Micrometeorological simulations over a coastal area using CALMET model: atmosphere monitoring. Proc. IEEE EESMS 2016: 180-185.
11. De Pascalis F, Ghezzi M, Umgiesser G, De Serio F, Mossa M (2016). Use of SHYFEM open source hydrodynamic model for time scales analysis in a semi-enclosed basin. Proc. IEEE EESMS 2016: 170-173.
12. Armenio E, De Serio F, Mossa M, Nobile B, Petrillo AF (2017). Investigation on coastline evolution using long-term observations and numerical modelling, Proc. ISOPE 2017: 1556-1564.
13. De Padova D, De Serio F, Mossa M, Armenio E (2017). Investigation of the current circulation offshore Taranto by using field measurements and numerical model, Proc. I2MTC - IEEE International Instrumentation and Measurement Technology Conference: 796993.
14. Tognin D, Peruzzo P, De Serio F, Ben Meftah M, Carniello L, Defina A, Mossa M (2018). Laboratory experiments on solitary wave interaction with rigid emergent vegetation: some preliminary results, Proc. IEEE International Workshop on Metrology for the Sea, Proc. 8657845: 70-75.
15. Armenio E, Ben Meftah M, De Padova D, De Serio F, Mossa M (2019). Monitoring System in Mar Grande Basin (Ionian Sea), Proc. IEEE International Workshop on Metrology for the Sea, Proc. 8657891: 104-109.
16. Maraglino D, Ben Meftah M, De Serio F, Mossa M (2020). Field measurements in a flow around a hydrofoil: Some preliminary results, 2019 IMEKO TC19 International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, 270-275.
17. Ben Meftah M, Armenio E, De Padova D, De Serio F, Mossa M (2020). Experiments on coupled wave-flow-vegetation interaction, 2019 IMEKO TC19 International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, 298-302.

Author also of more than 50 papers in other national and international Conference Proceedings.

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prof. Francesca De Serio