Prof Maurizio Collu

Ph.D., CEng, MRINA, FHEA

Professor in Offshore Renewable Energy Engineering
Naval Architecture, Ocean and Marine Engineering Department
University of Strathclyde

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Highlights

- I am a Professor in Offshore Renewable Energy Engineering, and I joined the Naval Architecture, Ocean and Marine Engineering Department of the University of Strathclyde in August 2018.
- My area of expertise is applied mechanics, focusing on multidisciplinary, coupled model of dynamics of offshore renewable energy systems.
- My research in the areas of analysis and design of floating offshore wind turbines and multi-purpose offshore structures is recognised as excellent at international level. I am also chair of the ITTC Ocean Renewable Energy committee (2021-24), member of the editorial board of the Ocean Engineering and Wind Energy Science journals, member of the scientific advisory committee in major international research projects and several offshore engineering conferences.
- I have directly managed 4.5M£ of public research funding, in projects for a total value of 28.5M£, funded by the Engineering and Physical Sciences Research Council UK (EPSRC), Natural Environment Research Council UK (NERC), Newton funds UK, Innovate UK, Royal Society (UK), EETF (Scottish Government), ORE Catapult (UK), Energy FP7 and H2020 (EU).
- I have also been working closely with the private sector, with companies ranging from small start-ups to large multinational energy companies.

Career in brief

After a full marks (100/100) 5 years degree (BSc + MSc) in Aerospace Engineering at *Politecnico di Milano (IT)*, Maurizio won a **fully funded PhD studentship at Cranfield University (2005-08)**, under the supervision of Prof. Minoo Patel, developing a novel model of dynamics for high speed marine vehicles with aerodynamic surfaces. This work led to a Royal Society paper, to a Transaction of the RINA paper (for which Maurizio received the **RINA Calder Prize**), and to a UK patent (GB 247 22 66).
As Postdoctoral Researcher (2008-10) he led the design of the floating support structure for the 5-10MW Vertical Axis Wind Turbine in the ETI-funded project NOVA - capturing the main results in a highly cited paper in Ocean Engineering, which was also the 2012 most downloaded paper of this journal.
As Lecturer (2010-2015) he secured £0.7m worth of research projects, plus a teaching income of ~£1m as a result of the outstanding success of the Advanced Mechanical Engineering MSc under his management.
As WP leader in the EU FP7 project H2Ocean (2012-14) he led the development of a dynamics model for a hybrid wind-wave offshore renewable energy devices, managing an international team of 6 people.
As Senior Lecturer (2015-2018), he has secured £1.5m worth of research funding (1.2m as PI), through a balanced portfolio of EU and UK research council funded, industry sponsored and specialist consultancy projects, and has taken the lead of the 5 MScs in Offshore and Ocean Technology at Cranfield.
In 2018 Maurizio moved to the University of Strathclyde, where he was promoted to **Reader (Assoc. Professor)**, where he had been the PI of the EPSRC-NERC Joint UK-China Offshore Renewables Energy project INNO-MPP (£767k, 3y) managing 19 investigators from 3 UK and 3 Chinese research institutions, work

package leader of the EU H2020 "The Blue Growth Farm" project (€7m, 3.5y), both focusing on offshore hybrid multi-purpose platforms, and work package leader in the EPSRC "Home Offshore" project (£3.8m, 3y), focusing on the O&M of Offshore Wind Farms.
Promoted to **Professor** in 2021, he continued to lead the development of the numerical models of dynamics of an offshore hybrid multi-purpose platforms as WP leader in "The Blue Growth Farm" project until the end, and from December 2021 he is WP leader of a prestigious 5 years UK-funded research program Ocean REFuel, on the production of hydrogen from offshore renewable sources.

Areas of specialisation and Bibliometrics

Offshore Renewable Energy • Offshore Wind Turbines • Offshore Multi-Purpose Platforms • Design of floating support structures for offshore renewable energy devices • Coupled model of dynamics for Offshore Renewable Energy Devices (wind, wave, tidal) • Loads on offshore structures

Wing in ground effect vehicles: design and analysis of dynamics

Bibliometrics	Scopus	Google Scholar
h-index	26	30
citations	2043	2933

Education

2014 Module 1 and Module 2, PGCAP in Teaching, Learning and Assessing in Higher Education, Cranfield University, UK

2005-2008 PhD in Dynamics of Marine Vehicles with Aerodynamic Surfaces, Cranfield University, UK

1999-2004 MSc+BSc (5 years degree) in Aerospace Engineering (1st, 100/100), Politecnico di Milano, IT

Honors & awards

2011 The Calder Prize, The Royal Institution of Naval Architects

Appointments held

Principal activities

04/2021-now Professor in Offshore Renewable Energy Engineering, University of Strathclyde, Glasgow, UK
08/2018-03/2021 Reader in Offshore Renewable Energy Systems, University of Strathclyde, Glasgow, UK
10/2015-07/2018 Senior Lecturer in Dynamics of Offshore Structures, Cranfield University, Cranfield, UK
10/2015-07/2018 Course Director of the 5 MSc in Offshore and Ocean Technology, Cranfield University, Cranfield, UK
09/2010-09/2015 Lecturer in Offshore Renewable Energy MSc, Cranfield University, Cranfield, UK
09/2010-09/2015 Course Director of the Advanced Mechanical Energy MSc, Cranfield University, Cranfield, UK
10/2009-08/2010 Research Fellow, Cranfield University, Cranfield, UK

Other professional activities

2022-now ITTC Liaison A for the IEC TC 114
2021-24 Chair of the ITTC Specialist Committee on Offshore Renewable Energy

2017-2021 External examiner, University of Southampton, for the BEng and MEng in Ship Science
2015-2018 External examiner, University of Strathclyde, for the MSc in Offshore Floating Systems and Msc in Ship & Offshore Structures
2017-2020 Member of the Specialist Committee on Hydrodynamic Modelling of Marine Renewable Energy Devices, ITTC
2014-2017 Member of the Ocean Engineering Committee, ITTC
2017-2018 Member of the Maritime Innovation Committee, The Royal Institution of Naval Architects
2017-2018 Member of the UK Fluids Network Special Interest Group in Marine Hydrodynamics

Other commitments

2023 Wind Energy Science Conference (WESC) 2023: Conference Programme Chair. Glasgow, Scotland, 23-26 May 2023
2012-now OMAE: Ocean renewable energy technical committee member, topic organiser, session organiser, session chairman
2014, 2017 Scientific committee member, International Conference on High Speed Marine Vehicles (HSMV)
2016-now Technical Advisory Panel, Conference on Offshore Renewable Energy (CORE)
2017 Technical committee member, Offshore Wind and other marine renewable Energies in Mediterranean and European seas (OWEMES)

Editor

2019-now Associate editor of the Journal of Offshore Marine and Arctic Engineering
2019-2020 Managing Guest editor for the journal Ocean Engineering (Elsevier) special issue on "Progress on Offshore Multi-Purpose Platforms"
2019-2020 Guest editor for the journal Ocean Engineering (Elsevier) special issue on "Floating Wind: Engineering Challenges and Opportunities"
2019-2020 Guest editor for the journal Energies (MDPI) special issue on "Assessment and Nonlinear Modelling of Wave, Tidal and Wind Energy Converters and Turbines". Link

Editorial board member

2023-now Ocean Engineering (Elsevier) Link

Academic roles

Teaching (Course)

2020-now Offshore Wind Turbines Dynamics Modelling, University of Strathclyde
2019-now Marine Renewable Energy Systems, University of Strathclyde
2019-now Marine Environment, University of Strathclyde
2011-2018 Fluid Mechanics and Loading, Cranfield University
2013,2014 Renewable Energy Systems, Cranfield University
2014 Renewable Energy Technologies, Markets and Policy, Cranfield University
2015,now Advanced Control Systems, Cranfield University
2012-now Introduction to MATLAB, Cranfield University

PhD Supervision (Current, as main supervisor)

2021-2024 Mr A Russell *LIDAR-assisted control of Floating Offshore Wind Turbines*

2020-2023 Ms V Sykes *Floating Offshore Wind Turbines: Design and Analysis*

2020-2023 Ms K Patryniak *Multidisciplinary Design, Analysis and Optimisation approach for Floating Offshore Wind Turbines*

2019-2023 Ms J McMorland *Operation and Maintenance Strategies for Floating Offshore Wind Turbines and Multi-Rotor Systems*

2019-2022 Mr A Ojo *Multidisciplinary Design, Analysis and Optimisation approach for Floating Offshore Wind Turbines*

2018-now Mr C Simpson *A hybrid aero-hydro-servo-elastic and thermo-electro-magnetic-mechanical digital twin model for the operation & maintenance of offshore wind turbines*

PhD Supervision (Completed, as main supervisor)

2015-2020 D Ward *Mitigation of Loads on Floating Offshore Wind Turbines through Advanced Control Strategies*

2013-2017 M Adhynugraha *Development and Validation of a Dynamics Model for an AAMV Configuration with Water Waves Consideration*

2011-2014 F Madugu *Techno-economic Modelling Analysis for Microalgae Cultivation to Biofuels and Co-Products*

2011-2014 M Borg *Offshore Floating Vertical Axis Wind Turbines: Development and Applications of a Coupled Model of Dynamics*
Best Cranfield University PhD student award 2017

PhD defense: external examiner

2023 Politecnico di Milano, Italy
Simone Di Carlo, A comparative dynamic analysis of floating platforms for 15 MW wind turbines

2023 Durham University, UK
Aidan J A Duffy, Modelling the Impact of Leading Edge Erosion Progression on the Electricity Produced by Wind Turbines

2022 Norwegian University of Science and Technology (NTNU), Norway
Carlos Eduardo Silva de Souza,Structural modelling, coupled dynamics, and design of large floating wind turbines

2022 Universita degli studi di Cagliari, Italy
Fabio Licheri, Experimental and numerical investigations of Wells turbines for wave energy conversion

2021 Politecnico di Milano, Italy
Alessandro Fontanella, Make the floating wind turbine see the waves: Advances in floating wind turbine control and scale model experiments

2021 The University of Queensland, Australia
Yun Il Chu, Development of Integrated Offshore Fish Cage and Floating Spar Wind Turbine

2019 Universita di Ferrara, Ferrara, Italy
H Bahlawan, Optimization of Hybrid Energy plants by Accounting for Life Cycle Energy Demand

2018 Ecole Centrale de Nantes, Nantes, France
V Leroy, Unsteady Aerodynamic Modelling for Seakeeping Analysis of Floating Offshore Wind Turbines

2018 University of Exeter, Exeter, UK
G Rinaldi, Reliable and cost effective offshore operations for farm deployment and operation

2017 University of Cantabria, Santander, Spain
M Martini, Reducing uncertainty in operations and maintenance of offshore floating wind energy

2016 University of Sheffield, Sheffield, UK
T Yin, On the use of the Theory of Critical Distances to design notched metallic components against dynamic loading

2016 IIT Madras, Chennai, India
N Senthil Kumar, Experimental and Numerical Investigation on Hydrodynamic Response of Buoy Form SPAR
2016 NTNU Trondheim, Norway
Z Cheng, Integrated Dynamic Analysis of Floating Vertical Axis Wind Turbines
2014 IIT Madras, Chennai, India
S Saravanapriya, Coupled Dynamic Response of Spar with Offshore Wind Turbine

MSc defense: external examiner

2022 University of Malta, Malta *Stability Analysis of a Self-Aligning Floating Offshore Wind Turbine Concept* Ms Diane Scicluna
2014 University of Malta, Malta *Load and Motion Analysis of a Floating Wind Monitoring Mast in Deep Sea* Ms Marisa Micallef

Main research projects

Years	Funding body	Project name	Role (Value admin by Collu)
2022-23	Innovate UK (UK)	Floating motion resistant crane for wind turbine installations and maintenance	PI (37.5 k GBP)
2021-26	EPSRC (UK)	Ocean REFuel - Ocean Renewable Energy Fuels (EP/W005212/1)	WP leader (1.8M GBP)
2021-21	Private company (IT)	Selection and preliminary design of a floating substructure for an offshore wind turbine	PI (27k GBP)
2018-21	EU - H2020	The Blue Growth Farm (BG-04-2017-1 774426)	WP leader (320k EUR)
2017-20	EPSRC (UK)	Investigation of the novel challenges of an integrated offshore multi-purpose platform	PI (767k GBP)
2017-18	EPSRC (UK)	Technical feasibility study to scale thermal heat generator	PI (90k GBP)
2017-20	EPSRC (UK)	HOME-Offshore: Holistic Operation and Maintenance for Energy from Offshore Wind Farms	Co-I (280k GBP)
2016-17	EPSRC (UK)	Platforms for Tidal Energy Converters	PI (26k GBP)
2012-14	EU - FP7	H2Ocean Project - Innovative design for an economically and environmentally sustainable multi-use open-sea platform	WP leader (474k EUR)
2012-13	Private company (UK) Ltd	AAMV Phase I Feasibility assessment of an Aerodynamically Alleviated Marine Vehicle for the luxury yacht market	PI (115k GBP)
2010-12	Energy Technology Institute UK	Novel Offshore Vertical Axis wind turbine (NOVA)	Floating support structure design lead
2010-11	Centre for Defence Enterprise - Ministry of Defence (UK)	CDE 12139 MOD Reducing Operational Dependency on Fossil Fuels by High Quality Biofuel Generation Using Militarized On-base Algae Ponds	PI (120k GBP)

Publications

N.B. For an updated list, see University of Strathclyde publication page

Book chapters

1. Bachynski, E., Collu, M. (2019), *Offshore Support Structures Design*, in "Renewable Energy from the Oceans: From Wave, Tidal and Gradient systems to Marine-based Wind and Solar ", editors: Sant, T, Coiro, D, The Institution of Engineering and Technology, UK.
2. Collu, M., Bachynsky, E. (2019), *Multi-Purpose Platforms*, in "Renewable Energy from the Oceans: From Wave, Tidal and Gradient systems to Marine-based Wind and Solar ", editors: Sant, T, Coiro, D, The Institution of Engineering and Technology (IET), UK.
3. Collu, M. (2016), *Section 2: Wind Turbine Options*, in "Floating Offshore Wind Energy: The Next Generation of Wind Energy", editors: Cruz, J, Atchenson, M, Springer
4. Collu, M., Borg, M. (2016), *Design of floating offshore wind turbines*, in "Offshore Wind Farms: Technologies Design and Operation", editors: Ng, C, Ran, L, Woodhead publishing

Journal articles

1. Patryniak, K., Collu, M., Coraddu, A., 2023. Rigid body dynamic response of a floating offshore wind turbine to waves: identification of the instantaneous centre of rotation through analytical and numerical analyses. Renewable Energy. 218, 14 p., 119378.
2. Sykes, V., Collu, M., Coraddu, A., 2023. A review and analysis of the uncertainty within cost models for floating offshore wind farms. Renewable and Sustainable Energy Reviews, 186, 26 p., 113634.
3. Sykes, V., Collu, M., Coraddu, A., 2023. A review and analysis of optimisation techniques applied to floating offshore wind platforms. Ocean Engineering. 285, Part 1, 24 p., 115247.
4. McMorland, J., Collu, M., McMillan, D., Carroll, J., Coraddu, A., 2023. Opportunistic maintenance for offshore wind: a review and proposal of future framework.Renewable and Sustainable Energy Reviews . 184, 15 p., 113571.
5. Ojo, A., Collu, M., Coraddu, A., 2023. Parametric curve comparison for modelling floating offshore wind turbine substructures. Energies. 16, 14, 24 p., 5371.
6. Cheng, Y., Fu, L., Dai, S., Collu, M., Ji, C., Yuan, Z. and Incecik, A., 2022. Experimental and numerical investigation of WEC-type floating breakwaters: A single-pontoon oscillating buoy and a dual-pontoon oscillating water column. Coastal Engineering, 177, p.104188.
7. Ojo, A., Collu, M. and Coraddu, A., 2022. Multidisciplinary design analysis and optimization of floating offshore wind turbine substructures: a review. Ocean Engineering, 266, p.112727.
8. McMorland, J., Flannigan, C., Carroll, J., Collu, M., McMillan, D., Leithead, W. and Coraddu, A., 2022. A review of operations and maintenance modelling with considerations for novel wind turbine concepts. Renewable and Sustainable Energy Reviews, 165, p.112581.
9. Cheng, Y., Fu, L., Dai, S., Collu, M., Cui, L., Yuan, Z. and Incecik, A., 2022. Experimental and numerical analysis of a hybrid WEC-breakwater system combining an oscillating water column and an oscillating buoy. Renewable and Sustainable Energy Reviews, 169, p.112909.
10. Cheng, Y., Fu, L., Dai, S., Collu, M., Ji, C., Yuan, Z. and Incecik, A., 2022. Experimental and numerical investigation of WEC-type floating breakwaters: a single-pontoon oscillating buoy and a dual-pontoon oscillating water column. Coastal Engineering, 177, p.104188.

11. McMorland, J., Collu, M., McMillan, D. and Carroll, J., 2022. Operation and maintenance for floating wind turbines: A review. Renewable and Sustainable Energy Reviews, 163, p.112499.

12. Cheng, Y., Du, W., Dai, S., Ji, C., Collu, M., Cocard, M., Cui, L., Yuan, Z. and Incecik, A., 2022. Hydrodynamic characteristics of a hybrid oscillating water column-oscillating buoy wave energy converter integrated into a π-type floating breakwater. Renewable and Sustainable Energy Reviews, 161, p.112299.

13. Patryniak, K., Collu, M. and Coraddu, A., 2022. Multidisciplinary design analysis and optimisation frameworks for floating offshore wind turbines: State of the art. Ocean Engineering, 251, p.111002.

14. Baldi, F., Coraddu, A., Kalikatzarakis, M., Jeleňová, D., Collu, M., Race, J. and Maréchal, F., 2022. Optimisation-based system designs for deep offshore wind farms including power to gas technologies. Applied Energy, 310, p.118540.

15. Fox, H., Pillai, A.C., Friedrich, D., Collu, M., Dawood, T. and Johanning, L., 2022. A Review of Predictive and Prescriptive Offshore Wind Farm Operation and Maintenance. Energies.

16. Cheng, Y., Xi, C., Dai, S., Ji, C., Collu, M., Li, M., Yuan, Z. and Incecik, A., 2022. Wave energy extraction and hydroelastic response reduction of modular floating breakwaters as array wave energy converters integrated into a very large floating structure. Applied Energy, 306, p.117953.

17. Billing, S.L., Charalambides, G., Tett, P., Giordano, M., Ruzzo, C., Arena, F., Santoro, A., Lagasco, F., Brizzi, G. and Collu, M., 2022. Combining wind power and farmed fish: Coastal community perceptions of multi-use offshore renewable energy installations in Europe. Energy Research & Social Science, 85, p.102421.

18. Leimeister, M., Kolios, A. and Collu, M., 2021. Development of a framework for wind turbine design and optimization. Modelling, 2(1), pp.105-128.

19. Walker, J., Coraddu, A., Collu, M. and Oneto, L., 2021. Digital twins of the mooring line tension for floating offshore wind turbines to improve monitoring, lifespan, and safety. Journal of Ocean Engineering and Marine Energy, pp.1-16.

20. Ward, D., Collu, M. and Sumner, J., 2021. A comparison of the turbine tower damping effects of a series of back twisted active pitch-to-stall blades for a spar and a semi-submersible FOWT. Journal of Offshore Mechanics and Arctic Engineering, 143(6), p.062002.

21. Serpetti, N., Benjamins, S., Brain, S., Collu, M., Harvey, B.J., Heymans, J.J., Hughes, A.D., Risch, D., Rosinski, S., Waggitt, J.J. and Wilson, B., 2021. Modeling small scale impacts of multi-purpose platforms: an ecosystem approach. Frontiers in Marine Science, p.778.

22. Ruzzo, C., Muggiasca, S., Malara, G., Taruffi, F., Belloli, M., Collu, M., Li, L., Brizzi, G. and Arena, F., 2021. Scaling strategies for multi-purpose floating structures physical modeling: State of art and new perspectives. Applied Ocean Research, 108, p.102487. https://doi.org/10.1016/j.apor.2020.102487

23. Arcigni, F., Abhinav, K.A., Collu, M. and Venturini, M., 2021. Analysis of tripod supported offshore wind turbines under conditions of marine growth. Ocean Engineering, 220, p.108441. https://doi.org/10.1016/j.oceaneng.20

24. Leimeister, M., Kolios, A. and Collu, M., 2020. Development and verification of an aero-hydro-servoelastic coupled model of dynamics for FOWT, based on the MoWiT library. Energies, 13(8), p.1974. https://doi.org/10.3390/en13081974

25. Zhou, B.Z., Hu, J.J., Sun, K., Liu, Y. and Collu, M., 2020. Motion response and energy conversion performance of a heaving point absorber wave energy converter. Frontiers in Energy Research, 8.

26. Li, L., Ruzzo, C., Collu, M., Gao, Y., Failla, G. and Arena, F., 2020. Analysis of the coupled dynamic response of an offshore floating multi-purpose platform for the blue economy. Ocean Engineering, 217 https://doi.org/10.1016/j.oceaneng.2020.107943

27. Hu, J., Zhou, B., Vogel, C., Liu, P., Willden, R., Sun, K., Zang, J., Geng, J., Jin, P., Cui, L. and Jiang, B., Collu, M., 2020. Optimal design and performance analysis of a hybrid system combing a floating wind platform and wave energy converters. Applied Energy, 269, p.114998.

28. Benjamins, S., Masden, E. and Collu, M., 2020. Integrating Wind Turbines and Fish Farms: An Evaluation of Potential Risks to Marine and Coastal Bird Species. Journal of Marine Science and Engineering, 8(6), p.414.

29. Lin, Z., Liu, X. and Collu, M., 2020. Wind power prediction based on high-frequency SCADA data along with isolation forest and deep learning neural networks. International Journal of Electrical Power & Energy Systems, 118, p.105835.

30. Leimeister, M., Kolios, A., Collu, M. and Thomas, P., 2020. Design optimization of the OC3 phase IV floating spar-buoy, based on global limit states. Ocean Engineering, 202, p.107186.

31. Ward, D., Collu, M. and Sumner, J., 2020. Analysis of the effect of a series of back twist blade configurations for an active pitch-to-stall floating offshore wind turbine. Journal of Offshore Mechanics and Arctic Engineering, 142(6).

32. Leimeister, M., Kolios, A. and Collu, M., 2020. Development and verification of an aero-hydro-servo-elastic coupled model of dynamics for FOWT, based on the MoWiT library. Energies, 13(8), p.1974.

33. Abhinav, K.A., Collu, M., Benjamins, S., Cai, H., Hughes, A., Jiang, B., Jude, S., Leithead, W., Lin, C., Liu, H. and Recalde-Camacho, L., 2020. Offshore multi-purpose platforms for a Blue Growth: a technological, environmental and socio-economic review. Science of The Total Environment, p.138256.

34. Lin, Z., Cevasco, D. and Collu, M., 2020. A methodology to develop reduced-order models to support the operation and maintenance of offshore wind turbines. Applied Energy, 259, p.114228.

35. Ward, D., Collu, M. and Sumner, J., 2019. Reducing Tower Fatigue through Blade Back Twist and Active Pitch-to-Stall Control Strategy for a Semi-Submersible Floating Offshore Wind Turbine. Energies, 12(10), p.1897.

36. Kong, F., Su, W., Liu, H., Collu, M., Lin, Z., Chen, H., Zheng, X. Investigation on PTO control of a Combined Axisymmetric Buoy-WEC(CAB-WEC) (2019) Ocean Engineering, 188.

37. Arcigni, F., Friso, R., Collu, M., Venturini, M. (2019). Harmonized and systematic assessment of microalgae energy potential for biodiesel production. Renewable and Sustainable Energy Reviews, 101,Pages 614-62, ISSN 1364-0321, https://doi.org/10.1016/j.rser.2018.11.024

38. Liu, H., Ao, J., Chen, H., Liu, M., Collu, M., Liu, J. (2018). Performance Analysis of a Sea Javelin Wave Energy Converter in Irregular Wave. Journal of Coastal Research, 83, pp.932–940, ISSN 0749-0208

39. Ruzzo, C., Fiamma, V., Collu, M., Failla, G., Nava, V., Arena, F. On intermediate-scale open-sea experiments on floating offshore structures: Feasibility and application on a spar support for offshore wind turbines (2018) Marine Structures, 61, pp.220-237

40. Cevasco, D., Collu, M., Hall, M., Rizzo, C.M. On mooring line tension and fatigue prediction for offshore vertical axis wind turbines : a comparison of lumped-mass and quasi-static approaches (2018) Wind Engineering, 42(2), pp.97–107

41. Gueorguiev, S., Collu, M., Cao, Y Can a Wind Turbine Learn to Operate Itself? Evaluation of the potential of a heuristic, data-driven self-optimizing control system for a 5MW offshore wind turbine (2017). Energy Procedia, 137, pp.26-37.

42. Ruzzo, C., Failla, G., Collu, M., Nava, V., Fiamma, V., Arena, F. Output-only identification of rigid body motions of floating structures: a case study (2017), Procedia Eng., 199, pp. 930–935.

43. Ruzzo, C., Failla, G., Collu, M., Nava, V., Fiamma, V. and Arena, F. (2016). Operational Modal Analysis of a Spar-Type Floating Platform Using Frequency Domain Decomposition Method. Energies, 9(11), p.870.

44. Ruzzo, C., Fiamma, V., Nava, V., Collu, M., Failla, G., Arena, F., Progress on the experimental set-up for the testing of a floating offshore wind turbine scaled model in a field site (2016), Wind Engineering, 40 (5), pp. 455-467.

45. Orlandi, A., Collu, M., Zanforlin, S., Shires, A., 3D URANS analysis of a vertical axis wind turbine in skewed flows (2015), Journal of Wind Engineering and Industrial Aerodynamics, 147, pp. 77-84.

46. Borg, M., Collu, M. Frequency-domain characteristics of aerodynamic loads of offshore floating vertical axis wind turbines (2015) Applied Energy, 155, pp. 629-636.

47. Borg, M., Collu, M. A comparison between the dynamics of horizontal and vertical axis offshore floating wind turbines (2015) Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 373 (2035).

48. Yang, W., Yang, Z., Collu, M. Longitudinal static stability requirements for wing in ground effect vehicle (2015) International Journal of Naval Architecture and Ocean Engineering, 7 (2), pp. 259-269.

49. Borg, M., Collu, M. Offshore floating vertical axis wind turbines, dynamics modelling state of the art. Part III: Hydrodynamics and coupled modelling approaches (2015) Renewable and Sustainable Energy Reviews, 46, pp. 296-310.

50. Borg, M., Collu, M., Kolios, A. Offshore floating vertical axis wind turbines, dynamics modelling state of the art. Part II: Mooring line and structural dynamics (2014) Renewable and Sustainable Energy Reviews, 39, pp. 1226-1234.

51. Borg, M., Shires, A., Collu, M. Offshore floating vertical axis wind turbines, dynamics modelling state of the art. part I: Aerodynamics (2014) Renewable and Sustainable Energy Reviews, 39, pp. 1214-1225.

52. Borg, M., Collu, M. A preliminary comparison on the dynamics of a floating vertical axis wind turbine on three different floating support structures (2014) Energy Procedia, 53, pp. 268 – 279.

53. Collu, M., Maggi, A., Gualeni, P., Rizzo, C.M., Brennan, F. Stability requirements for floating offshore wind turbine (FOWT) during assembly and temporary phases: Overview and application (2014) Ocean Engineering, 84, pp. 164-175.

54. Collu, M., Brennan, F.P., Patel, M.H. Conceptual design of a floating support structure for an offshore vertical axis wind turbine: The lessons learnt (2014) Ships and Offshore Structures, 9 (1), pp. 3-21.

55. Borg, M., Collu, M., Brennan, F. Use of a Wave Energy Converter as a Motion Suppression Device for Floating Wind Turbines (2013) Energy Procedia, 35, pp. 223-233

56. Martin, H., Spano, G., Küster, J.F., Collu, M., Kolios, A.J. Application and extension of the TOPSIS method for the assessment of floating offshore wind turbine support structures (2013) Ships and Offshore Structures, 8 (5), pp. 477-487.

57. Lefebvre, S., Collu, M. Preliminary design of a floating support structure for a 5 MW offshore wind turbine (2012) Ocean Engineering, 40, pp. 15-26.

58. Williams, A.G.W., Collu, M., Patel, M.H. Aerodynamic lift forces on multihulled marine vehicles (2010) Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering, 152 (2), pp. A41-A50.

59. Collu, M., Patel, M.H., Trarieux, F. The longitudinal static stability of an aerodynamically alleviated marine vehicle, a mathematical model (2010) Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 466 (2116), pp. 1055-1075.

Conference articles

60. Saeed, K., McMorland, J., Collu, M., Coraddu, A., Carroll, J. and McMillan, D., 2022, November. Adaptations of offshore wind operation and maintenance models for floating wind. In Journal of Physics: Conference Series (Vol. 2362, No. 1, p. 012036). IOP Publishing.

61. Sykes, V., Collu, M. and Coraddu, A., 2022, May. A flexible, multi-fidelity levelised cost of energy model for floating offshore wind turbines multidisciplinary design, analysis and optimisation approaches. In Journal of Physics: Conference Series (Vol. 2265, No. 4, p. 042029). IOP Publishing.

62. Ojo, A., Collu, M. and Coraddu, A., 2022, May. Parametrisation scheme for multidisciplinary design analysis and optimisation of a floating offshore wind turbine substructure–OC3 5MW case study. In Journal of Physics: Conference Series (Vol. 2265, No. 4, p. 042009). IOP Publishing.

63. Jamieson, P., Ferreira, C.S., Dalhoff, P., Störtenbecker, S., Collu, M., Salo, E., McMillan, D., McMorland, J., Morgan, L. and Buck, A., 2022, April. Development of a multi rotor floating offshore system based on vertical axis wind turbines. In Journal of Physics: Conference Series (Vol. 2257, No. 1, p. 012002). IOP Publishing.

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112. Collu, M., Patel, M.H., Trarieux, F., A Mathematical Model to Analyse the Static Stability of Hybrid (Aero-Hydrodynamically Supported) Vehicles (2008) 8th Symposium on High Speed Marine Vehicles (HSMV 2008). RINA, Naples, Italy.

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1. Cevasco, D., Collu, M., (2018) Dataset for European Installed Offshore Wind Turbines (until year end 2017). https://doi.org/10.17862/cranfield.rd.6133673

Newspaper/Magazine articles

1. Article on "The Sunday Times", 11 March 2018, " 'Big rig' fish farms may solve turbine issue too", linked to the INNO-MPP project

2. Collu, M. (2011) Floating Offshore Wind Turbines – Which Support Structure? Quick Tools to Improve Conceptual Design of a Floating Support Structure. Modern Energy Review, Vol. 3, Issue 1. TouchBriefings

Invited seminars / talks / workshops

1. Collu, M. (2023) "Overview of the latest technological advances and innovations in offshore wind energy: floating wind turbines", Marine Renewable Energy Academy, 4-8 September 2023, Burgas, Bulgaria, by British Embassy Sofia and Sofia University
2. Collu, M. (2023) "Introduction to the basic principles of marine renewable energy", Marine Renewable Energy Academy, 4-8 September 2023, Burgas, Bulgaria, by British Embassy Sofia and Sofia University
3. Collu, M. (2023) Keynote opening speech, Project "Ocean REFuel", Future Wind *&* Marine 2023 conference, Glasgow, February 2023
4. Collu, M. (2022) CSaP Policy Workshop on Offshore Floating Complexes (follow up)
   University of Cambridge, Centre for Science and Policy, and DSTL (UK), May 2022 (face-to-face)
5. Collu, M. (2022) Floating Offshore Wind Turbines Dynamic Modelling Advances (didattica di eccellenza)
   Politecnico di Torino (Italy), April 2022
6. Collu, M. (2022) The Blue Economy / Blue Growth: what is it? A journey from the international definition to a personal experience as researcher
   ISSUGE - Università Di Genova, Italy, April 2022 (Webinar)
7. Collu, M. (2022) Exploratory Session on Offshore Floating Complexes, presentation as Offshore Engineering subject matter expert in offshore floating multi-use/multi-purpose complexes
   University of Cambridge, Centre for Science and Policy, and DSTL (UK), January 2022 (webinar)
8. Collu, M. (2021) The reformed engineer - What is the importance of environmental work for engineers? Perspective from an engineer (a personal experience)
   EPSRC and NERC Centre for Doctoral Training in Offshore Renewable Energy (IDCORE), 24 June 2021 (Webinar)
9. Collu, M. (2021) Offshore Multi-Purpose platforms: empowering aquaculture through renewable energy
   Western Norway University of Applied Sciences, Bergen, 23 June 2021 (Webinar)
10. Collu, M. (2021) Offshore Multi-Purpose platforms: Offshore Multi-Purpose platforms: Exploiting the synergies between aquaculture and offshore renewables
    Blue Economy CRC (Cooperative Research Centre), Perth, 21 April 2021 (webinar)
11. Collu, M. (2020) Offshore Multi-Purpose Platforms: a positive alliance between aquaculture and offshore renewables
    Chinese Marine Renewable Energy Industrial Forum, China, 15 October 2020 (Webinar)
12. Collu, M. (2020) Blue Growth EU strategy: finding synergies among offshore industries
    ISSUGE – Università Di Genova, Italy, April 2020 (Webinar)
13. Collu, M. (2019) Are we ready for an integrated "ecosystem" of offshore industries? Offshore Multi-Purpose Platforms
    Stevens Institute of Technology, Hoboken, New Jersey, USA
14. Collu, M. (2019) Offshore Multi-Purpose Platforms - Exploiting the synergies between aquaculture and offshore renewables
    Tufts University, 25 September 2019, Boston, Massachusetts, USA
15. Collu, M. (2019) Offshore Multi-Purpose Platforms: finding synergies among offshore industries
    University of Strathclyde, NAOME Forum, 12 March 2019, Glasgow, UK
16. Collu, M. (2019) Offshore Multi-Purpose Platforms: finding synergies among offshore industries
    Australian Maritime College, University of Tasmania, 11 February 2019, Launceston, Australia

17. Collu, M. (2018) Integrating aquaculture and marine renewable energy generation into a single platform: the INNO-MPP project
Marine Alliance for Science and Technology for Scotland, Annual Science Meeting, 31 October - 2 November 2018, Glasgow, UK

18. Collu, M. (2018) Blue Growth EU strategy: finding synergies among offshore industries
ISSUGE – Università Di Genova, Italy, 26 May 2018

19. Collu, M. (2018) Project INNO-MPP: beyond floating offshore wind turbine: finding synergies among offshore industries
Floating Offshore Wind Conference, 28-29 June 2018, ETC. venues Victoria, London, UK

20. Collu, M. (2016) Workshop on Offshore Floating Wind Turbine: Support Structures
International Conference on Offshore Renewable Energy (CORE 2016) , Glasgow, Scotland, 12 September 2016

21. Collu, M. (2016) Floating Offshore Wind Turbines: Intro and coupled dynamics
Politecnico Di Milano, Milan, Italy, 8 April 2016

22. Collu, M. (2016) Floating Offshore Wind Turbines: Intro and coupled dynamics
Libera Universita' di Bolzano, Bolzano, Italy, 6 April 2016

23. Collu, M. (2016) Floating Offshore Wind Turbines: Intro and Coupled Dynamics
Universita Mediterranea di Reggio Calabria, Reggio Calabria (IT), 3 December 2015

24. Collu, M. (2015) Blue Growth EU strategy: the role of offshore renewable energy
DITEN – Università Di Genova, Italy, 10 April 2015

25. Collu, M. (2014) H2Ocean: development of a Wind-Wave power open-sea platform
Offshore Energy 2014 – Future Foundations, Amsterdam, 29 October 2014.

26. Collu, M. (2014) AAMV (Aerodynamically Alleviated Marine Vehicles): bridging the speed/payload gap
Offshore Energy 2014 – Offshore Vessels: Market Updated, 29 October 2014.

27. Collu, M., Borg, M. (2014) A potential solution to lower the (too high) costs of offshore wind: Vertical Axis Wind Turbines
MARIN (Maritime Research Institute Netherlands), NL, 27 October 2014.

28. Collu, M. (2013) Design of floating offshore wind turbine foundations
SUPERGEN WIND 2 – Training Seminar, Loughborough University, 3-4 September 2013

29. Collu, M. (2013) FloVAWT Coupled model of dynamics for Floating Vertical Axis Wind Turbines
University of Pisa (IT), Engineering Dept., 22 April 2013

30. Collu, M. (2012) Floating Support Structures for Offshore Wind Turbines (Webinar)
Indian and Chinese offshore wind stakeholders, organised by Cavendish Group international, 25 October 2012

31. Collu, M. (2012) FloVAWT Coupled model of dynamics for Floating Vertical Axis Wind Turbines
University of Genoa (IT), 7 May 2012

32. Collu, M. (2010) Aerodynamically Alleviated Marine Vehicles: bridging the gap between airplanes and ships
University of Ferrara, Italy, 1 March 2010