PERSONAL INFORMATION

Florin ONEA

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Sex Male | Date of birth 23/08/1984 | Nationality Romanian

WORK EXPERIENCE

February 2020 – present — Associate Professor
Faculty of Engineering, University "Dunarea de Jos" of Galati, Romania
- Teaching and supervising students from the Department of Mechanical Engineering

October 2017 – February 2020 — Lecturer
Faculty of Engineering, University "Dunarea de Jos" of Galati, Romania
- Teaching and supervising students from the Department of Mechanical Engineering

February 2015 – October 2017 — Assistant professor
Faculty of Engineering, University "Dunarea de Jos" of Galati, Romania
- Teaching and supervising students from the Department of Mechanical Engineering

EDUCATION AND TRAINING

May 2014 – December 2015 — Postdoctoral researcher
Coordinator: Politehnica University of Bucharest; Partner: University "Dunarea de Jos" of Galati, Romania
- Research project: Assessment to the renewable energy potential from the Romanian coastal areas

October 2009 – January 2013 — Doctor of Engineering
Faculty of Engineering, University "Dunarea de Jos" of Galati, Romania
- Thesis: Studies concerning the renewable energy extraction in marine environments with applications to the Black Sea basin

July 2011 – February 2012 — External mobility
- Department of Mechatronic, University Duisburg-Essen, Germany

October 2004 – July 2009 — Diplomat Engineer (5-year degree)
Faculty of Engineering, University "Dunarea de Jos" of Galati, Romania
- Thesis: Dynamic analysis of a submerged towed body

PERSONAL SKILLS

Mother tongue: Romanian

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills: MATLAB

ADDITIONAL INFORMATION

AWARDS

- **UEFISCDI, Romania** (Rewarding research results - articles PRECISI): Year 2019 – 2 article (2 - red area); Year 2018 – 2 articles; Year 2017 - 1 article (red area); Year 2016 - 3 articles (2 - red area); Year 2015 - 1 article (red area); Year 2014 - 1 article (red area); Year 2013 - 1 article (red area).

Chairman

- Section Wind Energy System. REEE 2019, August 19-22, 2019, Munich, Germany.
- Section Ocean Energy-2. OCEANS'15 MTS/IEEE GENOVA May 18-21, 2015 Genova, Italy.

Academic networks

Publons: https://publons.com/researcher/1547396/onea-florin/metrics/
Researchgate: https://www.researchgate.net/profile/Florin_Onea/?ev=hdr_xprf
SCOPUS: http://www.scopus.com/authid/detail.url?authorId=55326229800
Google Scholar: https://scholar.google.com/citations?user=pKmjk6MAAAAJ&hl=en
Brainmap https://www.brainmap.ro/florin-onea
ORCID: http://orcid.org/0000-0001-9594-1388

ANNEXES

A - PAPERS IN ISI JOURNALS (27 articles)

1. Raileanu A, **Onea F**, Rusu, E, 2020. *An Overview of the Expected Shoreline Impact of the Marine Energy Farms Operating in Different Coastal Environments*. J. Mar. Sci. Eng. 2020, 8(2), 228 **(I.F: 1.732/2018)** https://www.mdpi.com/2077-1312/8/3/228

2. **Onea F**, Rusu E, 2019. *The expected shoreline effect of a marine energy farm operating close to Sardinia Island*. Water, 11(11), 2303 **(I.F: 2.524/2018)** https://doi.org/10.3390/w11112303

3. **Onea F**, Rusu L, 2019. *Long-term analysis of the Black Sea weather windows*. J. Mar. Sci. Eng. 2019, 7(9), 303 **(I.F: 1.732/2018)** https://doi.org/10.3390/jmse7090303

4. **Onea F**, Rusu E, 2019. *An assessment of wind energy potential in the Caspian Sea*. Energies 12(13), 2525 **(I.F: 2.707/2018)** https://doi.org/10.3390/en12132525

5. Rusu E, **Onea F**, 2019. *A parallel evaluation of the wind and wave energy resources along the Latin American and European coastal environments*. Renewable Energy **(I.F: 5.439/2018).** https://doi.org/10.1016/j.renene.2019.05.117

6. Rusu L, **Onea F**, 2019. *A study on the wind energy potential in the Romanian coastal environment*. J. Mar. Sci. Eng. 2019, 7(5), 142 **(I.F: 1.732/2018)** https://doi.org/10.3390/jmse7050142

7. Rusu E, **Onea F**, 2019. *An assessment of the wind and wave power potential in the island environment*. Energy 175 (2019), 830-846 **(I.F: 5.537/2018)** https://doi.org/10.1016/j.energy.2019.03.130

8. **Onea F**, Rusu L, 2018. *Evaluation of some state-of-the-art wind technologies in the nearshore of the Black Sea*. Energies 11(9), 2452 **(I.F: 2.707/2018)** https://doi.org/10.3390/en11092452

9. Rusu L, Raileanu A, **Onea F**, 2018. *A comparative analysis of the wind and wave climate in the Black Sea along the shipping routes*. Water, 10(7), 924 **(I.F: 2.524/2018)** https://doi.org/10.3390/w10070924

10. Rusu E, **Onea F**, 2018. *A review of the technologies for wave energy extraction*. Clean Energy, zky003, https://doi.org/10.1093/ce/zky003

11. **Onea F**, Rusu E, 2018. *Sustainability of the reanalysis databases in predicting the wind and wave power along the European coasts*. Sustainability 10 (193) **(I.F: 2.592/2018)** http://www.mdpi.com/2071-1050/10/1/193

12. Rusu E, **Onea F**, 2017. *Joint evaluation of the wave and offshore wind energy resources in the developing countries.* Energies 10 (11), 1866 **(I.F: 2.707/2018)** http://www.mdpi.com/1996-1073/10/11/1866

13. **Onea F**, Rusu L, 2017. *A long-term assessment of the Black Sea wave climate*. Sustainability 9 (10), 1875 **(I.F: 2.592/2018)** http://www.mdpi.com/2071-1050/9/10/1875

14. **Onea F**, Ciortan S, Rusu E, 2017. *Assessment of the potential for developing combined wind-wave projects in the European nearshore*. Energy & Environment (Energ Environ), 1-18 **(I.F: 1.092/2018)** http://journals.sagepub.com/doi/abs/10.1177/0958305X17716947

15. Rusu L, **Onea F**, 2017. *The performances of some state of the art wave energy converters in locations with the worldwide highest wave power*. Renewable & Sustainable Energy Reviews, 75, 1348-1362 **(I.F: 10.556/2018)** http://www.sciencedirect.com/science/article/pii/S1364032116308838

16. **Onea F**, Deleanu L, Rusu L, Georgescu C, 2016. *Evaluation of the wind energy potential along the Mediterranean Sea coasts.* ENERGY EXPLORATION & EXPLOITATION, 34 (5), 766-792 **(I.F: 1.946/2018)** http://eea.sagepub.com/content/34/5/766.abstract

17. Rusu E, **Onea F**, 2016. *Study on the influence of the distance to shore for a wave energy farm operating in the central part of the*

Portuguese nearshore. Energy Conversion and Management, 114, 209-223 **(I.F: 7.181/2018)** http://www.sciencedirect.com/science/article/pii/S0196890416300449

18. **Onea F**, Rusu E, 2016. *Efficiency assessments for some state of the art wind turbines in the coastal environments of the Black and the Caspian seas*. ENERGY EXPLORATION & EXPLOITATION, 34 (2), 217-234 **(I.F: 1.946/2018)** http://eea.sagepub.com/content/34/2/217.full.pdf?ijkey=DQWiwJbYkbWrTga&keytype=finite

19. **Onea F**, Rusu E, 2016. *The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore.* Energy, 97, 411–423 **(I.F: 5.537/2018)** http://www.sciencedirect.com/science/article/pii/S0360544216000128

20. Rusu E, **Onea F**. 2016. *Estimation of the wave energy conversion efficiency in the Atlantic Ocean close to the European islands*. Renewable Energy, 85, 687–703 **(I.F: 5.439/2018)** http://www.sciencedirect.com/science/article/pii/S0960148115301385

21. **Onea F**, Raileanu A, Rusu E, 2015. *Evaluation of the wind energy potential in the coastal environment of two enclosed seas*. Advances in Meteorology. Article Number: 808617, 14 pages, doi:10.1155/2015/808617 **(I.F: 1.577/2018)** http://www.hindawi.com/journals/amete/aip/808617/

22. Rusu L, **Onea F**, 2015. *Assessment of the performances of various wave energy converters along the European continental coasts*. Energy, 82, 889–904 **(I.F: 5.537/2018)** http://www.sciencedirect.com/science/article/pii/S0360544215001231

23. Zanopol AT, **Onea F**, Rusu E, 2014. *Coastal impact assessment of a generic wave farm operating in the Romanian nearshore.* Energy, 72, 652-670 **(I.F: 5.537/2018)** http://www.sciencedirect.com/science/article/pii/S0360544214006604

24. **Onea F**, Rusu E, 2014. An *evaluation of the wind energy in the north-west of the Black Sea*. International Journal of Green Energy, 11 (5), 465-487 **(I.F: 1.302/2018)** http://dx.doi.org/10.1080/15435075.2013.773513

25. Zanopol AT, **Onea F**, Rusu E, 2014. *Evaluation of the coastal Influence of a generic wave farm operating in the Romanian nearshore.* Journal of Environmental Protection and Ecology (JEPE), 15 (2), 597-605 **(I.F: 0.634/2018)** http://www.jepe-journal.info/

26. **Onea F**, Rusu E. 2014. *Wind energy assessments along the Black Sea basin*. Meteorological Applications, 21(2), 316-329 **(I.F: 1.711/2018)** http://onlinelibrary.wiley.com/doi/10.1002/met.1337/abstract

27. Rusu E, **Onea F**. 2013. *Evaluation of the wind and wave energy in the Caspian Sea*. Energy, 50, 1-14 **(I.F: 5.537/2018)** http://dx.doi.org/10.1016/j.energy.2012.11.044

B - PUBLICATIONS IN THE INTERNATIONAL CONFERENCE (22 publications)

1. **Onea F**, Rusu L, 2020. *Impact Assessment of a Generic Wave Farm on the Wave Conditions at the Entrance to Danube Delta*. Academics World International Conference, March 23– 24, 2020, Bucharest, Romania. http://www.academicsworld.org/Conference2020/Romania/1/ICRAMHS/

2. **Onea F**, Rusu L, 2019. *An overview of the Black Sea weather downtime*. IISES International Academic Conference, September 23-26, 2019 Barcelona, Spain. https://www.iises.net/current-conferences/academic/international-academic-conference-barcelona

3. Rusu E, **Onea F**, 2019. *Wind and wave energy resource of Germany reported by ERA-Interim reanalysis data*. 2nd International Conference on Renewable Energy and Environment Engineering (REEE 2019), August 19-22, 2019 Munich, Germany. http://www.reee.net/

4. **Onea F**, Rusu L, 2019. *Assessment of the Romanian onshore and offshore wind energy potential*. 2nd International Conference on Renewable Energy and Environment Engineering (REEE 2019), August 19-22, 2019 Munich, Germany. http://www.reee.net/

5. Hobjila A, **Onea F**, Rusu L, 2019. Assessment of the weather windows availability related to the Black Sea maritime operations. CSSD-UDJG 2019, 13-14 June 2019, Galati, Romania http://www.cssd-udjg.ugal.ro/

6. **Onea F**, Rusu L, 2019. *Offshore wind energy and the Romanian energy future*. 4th International Conference on Advances on Clean Energy Research (ICACER 2019), April 5-7, 2019 Coimbra, Portugal.

7. **Onea F**, Rusu L, 2019. *Wave power variation near the Romanian coastal waters*. 4th International Conference on Advances on Clean Energy Research (ICACER 2019), April 5-7, 2019 Coimbra, Portugal.

8. **Onea F**, Rusu L, 2018. *Evaluation of the Black Sea wind energy potential for a renewable energy perspective*. 3rd International Conference on Power and Renewable Energy, September 21-24, 2018, Berlin, Germany. http://www.icpre.org/

9. **Onea F**, Rusu L, 2018. *Assessment of the Romanian coastline wind energy potential*. 4th International Conference "Water resources and wetlands", September 5-9, 2018, Tulcea, Romania. https://www.limnology.ro/wrw2018/wrw2018.html

10. **Onea F**, Rusu E, 2018. *Sensitivity analysis of the wave energy converters operating in the French coastal waters*. ICPET, 4-6 July 2018, Lille, France http://www.icpet.org/

11. **Onea F**, Caranfil V, Rusu L, 2018. Renewables and the Romanian energy system. CSSD-UDJG 2018, 7-8 June 2018, Galati, Romania http://www.cssd-udjg.ugal.ro/

12. Raileanu A, **Onea F**, Rusu L, 2018. *Coastal protection of the Romanian nearshore throughout hybrid wave and offshore wind farms.* ICACER2018, 6-8 April 2018, Barcelona, Spain. http://icacer.com/

13. Rusu E, **Onea F**, 2018. *Evaluation of the shoreline effect of the marine energy farms in different coastal environments*. ICACER2018, 6-8 April 2018, Barcelona, Spain. http://icacer.com/

14. Rusu E, **Onea F**, 2018. *The synergy between wave and wind energy along the Latin American and the European Continental coasts*. SDEWES2018, 28-31 January 2018, Rio de Janeiro, Brazil. http://www.rio2018.sdewes.org/programme.php

15. Rusu E, **Onea F**, 2017. *Hybrid solutions for energy extraction in coastal environment*. 2nd International Conference on Advances on Clean Energy Research, ICACER 2017, 7-9 April 2017, Berlin, Germany. Energy Procedia 118, 46-53, 2017. DOI: 10.1016/j.egypro.2017.07.010.

16. Raileanu A, **Onea F**, Rusu E, 2016. *Spatial and seasonal variations of the environmental conditions along the Black Sea shipping routes*. International Multidisciplinary Scientific GeoConferences SGEM, 28 June - 7 July 2016 Albena, Bulgaria. Issue 3 (2), pp. 829-836. https://sgemworld.at/sgemlib/spip.php?article7983

17. **Onea F**, Raileanu A, Rusu E, 2016. *Evaluation of the wave energy potential in some locations where European offshore wind farms operate*. MARTECH 2016 - 3rd International Conference on Maritime Technology and Engineering 4 - 6 July 2016 Lisbon, Portugal. In book: Maritime Technology and Engineering 3 – Chapter: Evaluation of the wave energy potential in some locations where European offshore wind farms operate, Publisher: Taylor & Francis Group, London, Editors: Guedes Soares & Santos, pp.1119-1124. http://www.centec.tecnico.ulisboa.pt/martech2016/images/MARTECH2016%20-%20programme.pdf

18. **Onea F**, Rusu L, 2015. *Coastal impact of a hybrid marine farm operating close to Sardinia Island.* OCEANS'15 MTS/IEEE GENOVA 18-21 May 2015 Genova, Italy http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7271249&queryText=onea%20florin&newsearch=true

19. Raileanu A, **Onea F**, Rusu E, 2015. *Assesment of the wind energy potential in the coastal environment of two enclosed seas.* OCEANS'15 MTS/IEEE GENOVA 18-21 May 2015 Genova, Italy http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7271248&queryText=onea%20florin&newsearch=true

20. Raileanu A, **Onea F**, Rusu E, 2015. *Evaluation of the offshore wind resources in the European seas based on satellite measurements*. 15th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 18-24 June; 227-234, 2015 https://sgemworld.at/sgemlib/spip.php?article6134

21. Zanopol AT, **Onea F**, Rusu E, 2014. *Longshore curents evaluation along the Romanian Black Sea coast*. 14th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 17-26 June, vol. 2, 637-644 2014 http://sgem.org/sgemlib/spip.php?article4530

22. Zanopol AT, **Onea F**, Rusu E, 2014. *Wave farms influence on the Mangalia nearshore wave pattern.* 14th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: 17-26 June, vol. 1, 621-628, 2014 http://sgem.org/sgemlib/spip.php?article4700

C - BOOKS OR BOOK CHAPTERS (2 publications)

1. Rusu L, Raileanu A, **Onea F**. 2016. *Data assimilation with applications to the wave predictions from the Black Sea basin.* Zigotto Publishing House Galati, ISBN 978-606-669-182-6, 300 p, (in Romanian).

2. Rusu E, **Onea F**, Toderascu R. 2011. *The Black Sea: Dynamics, Ecology and Conservation, Ch. Dynamics of the environmental matrix in the Black Sea as reflected by recent measurements and simulations with numerical models*. Nova Science Publishers, Inc, New York. https://www.novapublishers.com/catalog/product_info.php?products_id=15888 **(SCOPUS indexed)**

D - PARTICIPATION TO RESEARCH PROJECTS (2 projects)

1. ROMAR (2018 - 2020) - ROmanian MArine Renewable solutions (PN-III-P1-1.1-PD-2016-0235) – *project leader* http://www.om.ugal.ro/Romar/index.php

2. REMARC (2017 - 2019) - Renewable Energy extraction in MARine environment and its Coastal impact (PN-III-P4-ID-PCE-2016-0017) http://www.om.ugal.ro/REMARC/index.php

April 2020