

PERSONAL INFORMATION

Florin ONEA



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

WORK EXPERIENCE

February 2015 - present

Lecturer

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 (Project ExcelDoc POSDRU/159/1.5/S/132397)

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 (Project SOP HRD - EFICIENT 61445/2009)

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

Other language(s)

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

Communication skills

Good communication skills: developed during the PhD studies and from didactic activities;
 Capacity for analysis and synthesis: ability to focus on objective and concrete results, which lead to the publications of several articles in prestigious journals.

Computer skills

MATLAB; SWAN; ANSYS AQWA

ADDITIONAL INFORMATION

AWARDS

- **CNCS prizes** (National Council of Scientific Research in Higher Education, Romania): Year 2016 - 3 articles (2 - red area; 1- yellow area); Year 2015 - 1 article (red area); Year 2014 - 1 article (red area); Year 2013 - 1 article (red area).
- Second place on the "Nicolae Tîpei" competition, October 2015. INCAS (National Institute for Aerospace Research "Elie Carafoli"), Bucuresti, Romania.

OTHER

- Chairman of the section Ocean Energy-2. OCEANS'15 MTS/IEEE GENOVA 18-21 May 2015 Genova, Italy.
http://genova15.oceansconference.org/userfiles/files/Oceans15_MTS_IEEE_Genova_Program_Book.pdf
- **Reviewer for the journals:** Journal of Wind Engineering & Industrial Aerodynamics; Energy Conversion and Management; Journal of Computational Science; Energy; Applied Energy; Energies; Energies.

Professional info

ResearcherID: <http://www.researcherid.com/rid/D-4892-2015> (h index - 8)
Researchgate: https://www.researchgate.net/profile/Florin_Onea/?ev=hdr_xprf (RG - 21.01)
SCOPUS: <http://www.scopus.com/authid/detail.url?authorId=55326229800> (h index - 8)
ORCID: <http://orcid.org/0000-0001-9594-1388>
Google Scholar: <https://scholar.google.com/citations?user=pKmjik6MAAAAJ&hl=en> (h index - 8)

ANNEXES

A - PAPERS IN ISI JOURNALS (14 articles)

1. **Onea F**, Ciortan S, Rusu E, 2017. *Assessment of the potential for development hybrid wind-wave projects in the European nearshore*. Energy & Environment (Energ Environ), 1-18 (I.F: **0.302/2016**)
<http://journals.sagepub.com/doi/abs/10.1177/0958305X17716947>
2. 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: **8.05/2016**).
<http://www.sciencedirect.com/science/article/pii/S1364032116308838>
3. **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: **0.963/2016**).
<http://eea.sagepub.com/content/34/5/766.abstract>
4. 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: **5.589/2016**).
<http://www.sciencedirect.com/science/article/pii/S0196890416300449>
5. **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: **0.963/2016**).
<http://eea.sagepub.com/content/34/2/217.full.pdf?ijkey=DQWiwJbYkbWrTga&keytype=finite>
6. **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: **4.52/2016**). <http://www.sciencedirect.com/science/article/pii/S0360544216000128>
7. 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: **4.357/2016**). <http://www.sciencedirect.com/science/article/pii/S0960148115301385>
8. **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: **1.277/2016**).
<http://www.hindawi.com/journals/amete/aip/808617/>
9. 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: **4.52/2016**). <http://www.sciencedirect.com/science/article/pii/S0360544215001231>

10. 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: **4.52/2016**). <http://www.sciencedirect.com/science/article/pii/S0360544214006604>
11. **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: **1.601/2015**). <http://dx.doi.org/10.1080/15435075.2013.773513>
12. 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: **0.734/2015**) <http://www.jepe-journal.info/>
13. **Onea F**, Rusu E. 2014. *Wind energy assessments along the Black Sea basin*. Meteorological Applications, 21(2), 316-329 (I.F: **1.273/2015**) <http://onlinelibrary.wiley.com/doi/10.1002/met.1337/abstract>
14. Rusu E, **Onea F**. 2013. *Evaluation of the wind and wave energy in the Caspian Sea*. Energy, 50, 1-14 (I.F: **4.52/2016**) <http://dx.doi.org/10.1016/j.energy.2012.11.044>

B - PUBLICATIONS IN THE ISI CONFERENCE PROCEEDINGS (8 publications)

1. 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. <http://www.icacer.com/index.html>.
2. 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. <http://www.sgem.org/sqemlib/spip.php?article7983>
3. **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>
4. **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?amumber=7271249&queryText=onea%20florin&newsearch=true>
5. 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&amumber=7271248&queryText=onea%20florin&newsearch=true>
6. 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 <http://www.sgemsocial.org/index.php/sgem-social-deadlines/sgem-social-schedule-programme-2015/sgem-social-deadlines-publish>
7. Zanopol AT, **Onea F**, Rusu E, 2014. *Longshore curenets 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/sqemlib/spip.php?article4530>
8. 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/sqemlib/spip.php?article4700>

C - PUBLICATIONS IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCES (15 publications)

1. Raileanu A, **Onea F**, Rusu E, 2015. *Evaluation of the offshore wind energy potential in the Romanian coastal environment at the Black Sea*. Presented at The international symposium Protection of the Black Sea ecosystem and sustainable management of maritime activities - PROMARE 2015, http://www.mareframe-fp7.org/ue_31.html, to be published in Cercetari Marine / Marines Reserches" vol. 46/2016, <http://www.rmri.ro/Home/Publications.RecherchesMarines.html> (3rd PRIZE FOR THE BEST ORAL PRESENTATION).
2. Ivan A, Raileanu A, **Onea F**, Rusu E, 2015. *Studies concerning the coastal impact of an offshore wind farm operating in the vicinity of the Danube Delta*. Presented at The international symposium Protection of the Black Sea ecosystem and sustainable management of maritime activities - PROMARE 2015, http://www.mareframe-fp7.org/ue_31.html, to be published in Cercetari Marine / Marines Reserches" vol. 45/2015, <http://www.rmri.ro/Home/Publications.RecherchesMarines.html> (3rd PRIZE FOR THE BEST POSTER PRESENTATION).

3. **Onea F**, Raileanu A, Rusu E, 2015. *Evaluation of the general wind conditions in the Black and the Caspian seas*. International Conference – 2015 Environmental Issues in Terms of Ecology and Its Protection May 6-7, 2015, Galati, Romania.
4. Rusu L, **Onea F**, 2015. *Shoreline effects of a wind-wave farm operating in the coastal environment of the Mediterranean Sea*. Environmental Issues in Terms of Ecology and Its Protection May 6-7, 2015, Galati, Romania.
5. Zanol AT, **Onea F**, 2014. *Coastal impact of a Wave Dragon farm operating in the Mamaia sector*. Poster presentation at the Scientific Conference organised by the Doctoral Schools of “Dunarea de Jos” University of Galati (CSSD-UDJG 2015), 15-16 May 2014 Galati, Romania (**Third place award**) http://www.cssd-udjg.ugal.ro/site/2014/resources/Book_of_Abstacts_2014.pdf
6. **Onea F**, Rusu E, 2014. *Studies concerning the renewable energy extraction from the Romanian nearshore areas*. UGALINVENT 8-10 October, organised by the “Dunarea de Jos” University of Galati, Romania, 184 -185. http://www.invent.ugal.ro/docs/CATALOG_UGAL_INVENT_2014.pdf
7. Zanol AT, **Onea F**, Rusu E, 2014. *Evaluation of the coastal Influence of a generic wave farm operating in the Romanian nearshore*. Poster la International Conference AQUALIRES 2014: New tools for sustainable management of aquatic living resources, 17-18 January 2014, Bucharest Romania. <http://aqualires.incdpm.ro/images/AGENDA.pdf>
8. Zanol AT, **Onea F**, Rusu E, 2013. *The wave field conditions in the presence of a hybrid wave-wind farm located in the Romanian nearshore*. The International Symposium: “Protection and Sustainable Management of the Black Sea Ecosystem, Third Millennium Imperative”, Sixth Edition, 31 October 2013, Constanta, Romania. http://www.blacksea-commission.org/Downloads/BS-GES-2013-Conference_Program_18.10.pdf
9. Rusu E, **Onea F**, 2012. *Wave Energy Evaluations in Enclosed Seas*. 8th International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD'12), 2-4 May, Faro, Portugal, 19-25. <http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-01.pdf>
10. **Onea F**, Rusu E, 2012. *Evaluation of the Wind Energy Resources in the Black Sea Area*. 8th International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD'12), 2-4 May, Faro, Portugal, 26-32. <http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-02.pdf>
11. **Onea F**, Rusu E, 2011. *Wave energy patterns in the Black Sea evaluated with satellite data and numerical models*, Research Quality In Doctoral School Increased Industrial and International Visibility, 13–14 July 2011 Gala i, România. <http://www.phd-expert.ugal.ro/SiteWorkshop2011/>
12. Butunoiu D, **Onea F**, Rusu E, 2011. *Wave modeling to support harbor operations*. Research Quality In Doctoral School Increased Industrial and International Visibility, 13 – 14 July 2011 Galati, Romania. <http://www.phd-expert.ugal.ro/SiteWorkshop2011/>
13. **Onea F**, Rusu, E, 2010. *Assessment of the Wave Energy Resources in the Black Sea Basin*. European Dimensions of the Doctoral Programmes, 22-23 July Galati, Romania. http://www.phd-expert.ugal.ro/SiteWorkshop/new_page_4.htm
14. **Onea F**, Rusu E, Strat I, 2010. *Evaluation of the wave energy potential in the Black Sea using remotely data*. Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 375-380.
15. Rusu E, **Onea F**, 2010. *Assessment of the spatial distribution of the wave energy in the Black Sea with numerical models*. Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 388-393.

D - PUBLICATIONS IN JOURNALS INDEXED IN INTERNATIONAL DATA BASES (16 articles)

1. **Onea F**, Rusu E, 2016. *Coastal protections provided by energy farms in the Romanian nearshore*. Mechanical Testing and Diagnosis, 2, 5-14. http://www.im.ugal.ro/mtd/download/2016-2/1%20MTD_2016_Volume%202_One%20xx.pdf
2. **Onea F**, Raileanu A, Rusu E, 2016. *Analysis of the extreme wind and wave conditions in the Black Sea as reflected by the altimeter measurements*. Mechanical Testing and Diagnosis, 1, 5-12. http://www.om.ugal.ro/mtd/download/2016-1/1%20MTD_2016_Volume%201_One.pdf
3. **Onea F**, Rusu E, 2015. *Analysis of some numerical simulations related to a hybrid wave energy converter*. Annals of “Dunarea De Jos” University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, YEAR V(XXXVI), 1, 46-53 http://www.phys.ugal.ro/Annals_Fascicle_2/Year2015/Vol1.htm. *Presented at the Scientific Conference organised by the Doctoral Schools of “Dunarea de Jos” University of Galati (CSSD-UDJG 2015), 4-5 June 2015 Galati, Romania. <http://www.cssd-udjg.ugal.ro/index.php/abstracts>
4. Zanol AT, **Onea F**, Rusu E, 2014. *Studies concerning the influence of the wave farms on the nearshore processes*. International Journal of Geosciences 5, 728-738. <http://dx.doi.org/10.4236/ijg.2014.57065>

5. Zanol AT, **Onea F**, Rusu E, 2014 *The coastal impact of the WEC arrays operating in the coastal environment of the Black Sea*. Marine Engineering Frontiers, 2 (2), 16-23, <http://www.seipub.org/mef/paperInfo.aspx?ID=16614>
6. Zanol AT, **Onea F**, Raileanu A, 2014. *Coastal impact simulation of a Wave Dragon farm operating in the nearshore of Mangalia*. Constanta Maritime University Annals, 21 (I), 65-70. <http://www.cmu-edu.eu/anale/anale/2014-vol21/2014-an%2015%20vol%2021.pdf>
7. Zanol AT, **Onea F**, Rusu L, 2014. *Experimental results to evaluate the wave and currents conditions in the Romanian nearshore*. Constanta Maritime University Annals, 21(I), 71-76. <http://www.cmu-edu.eu/anale/anale/2014-vol21/2014-an%2015%20vol%2021.pdf>
8. Zanol AT, **Onea F**, Rusu L, 2013. *Evolution of the Romanian nearshore currents under the influence of WEC farms*. Mechanical Testing and Diagnosis, 4, 13-20. <http://www.om.ugal.ro/Mtd/issue2013-4.htm>
9. Zanol AT, **Onea F**, 2013. *Coastal influence of a Pelamis wave farm operating in the nearshore of Mamaia*. Mechanical Testing and Diagnosis, 3, 5-14, <http://www.om.ugal.ro/Mtd/issue2013-3.htm>
10. **Onea F**, Rusu L, 2013. *Influence of a hybrid wave-wind farm on the Romanian coastal area*. Annals of "Dunarea De Jos" University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, YEAR V(XXXVI), 2, 146-152, 2013. http://www.phys.ugal.ro/Annals_Fascicle_2/Year2013/Annals%202013%20volume%20II.htm. Presented at the First International Conference Danube - Black Sea 3E - Energy, Environment & Efficiency, 18-21 September, Galati, Romania.
11. **Onea F**, Rusu E. 2013. *A general perspective of the wave conditions from the Black Sea basin, reflected by satellite and in situ measurements*. Annals of "Dunarea De Jos" University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, YEAR V(XXXVI), 2, pp. 216-222, 2013. http://www.phys.ugal.ro/Annals_Fascicle_2/Year2013/Annals%202013%20volume%20II.htm. Presented at the First International Conference Danube - Black Sea 3E - Energy, Environment & Efficiency, 18-21 September, Galati, Romania.
12. Zanol AT, **Onea F**. 2013. *Assesment of the wind energy potential from the Black Sea area with satellite data*. Annals of "Dunarea De Jos" University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle II, YEAR V(XXXVI), 2, 185-191, http://www.phys.ugal.ro/Annals_Fascicle_2/Year2013/Annals%202013%20volume%20II.htm
13. Diaconu S, **Onea F**, Rusu E. 2013. *Evaluation of the nearshore impact of a hybrid wave-wind energy farm*. International Journal of Education and Research, 1(2), <http://www.ijem.com/images/February-2013/24.pdf>
14. **Onea F**, Diaconu S, Rusu E. 2013. *Evaluation of the environmental conditions in the vicinity of the Romanian ports at the Black Sea*. Constanta Maritime University Annals, vol. 19, 143-150. http://www.cmu-edu.eu/anale/anale/2013-vol19/Abstract_Anale_vol%2019_2013.pdf
15. **Onea F**, Rusu E, Bernardino M, 2010. *Overview of wave and wind climate in the Romanian nearshore using satellite data*. Annals of "Dunarea De Jos" University of Galati, Fascicle X, Applied Mechanics, Issue 2, 57-65. <http://www.mrm.ugal.ro/Annals201012.htm>
16. **Onea F**, Rusu E, Bernardino M, 2010. *Renewable energy solutions in marine environment*. Annals of "Dunarea De Jos" University of Galati, Fascicle X, Applied Mechanics, Issue1, 45-52. <http://www.mrm.ugal.ro/Annals2010.htm>

E - 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)

F - PARTICIPATION TO RESEARCH PROJECTS (1 project)

1. REMARC (2017 - present) - Renewable Energy extraction in MARine environment and its Coastal impact – *team member*. <https://www.researchgate.net/project/REMARC-Renewable-Energy-extraction-in-MARine-environment-and-its-Coastal-impact>

29. 08. 2017