Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Eugen Victor Cristian RUSU**
Address(es)	9 Traian St., Bl. W3 Ap. 11, 6200 Galati, Romania
Telephone(s)	Personal: +402 36 410434 Mobile: +40 740205534
Fax(es)	+402 36 461353
E-mail	erusu@ugal.ro , eugen.rusu@mar.ist.utl.pt evcrusu@yahoo.com
Nationality	Romanian
Date of birth	18.12.1957
Gender	Male

Work experience

Dates	Since March 2001
Occupation or position held	University Professor, Department of Mechanical Engineering, Head of Laboratory of Computations and Modelling in Applied Mechanics, http://www.im.ugal.ro/CadreDidactice.htm 2013-2015, President of the Scientific Commission of the University Senate Since 2016, President of the Council of the Doctoral schools of University Dunărea de Jos of Galaţi, vicerector **In 2015 received the award of Doctor Honoris Causa at the Maritime University of Constanza, Romania** http://www2.cmu-edu.eu/home/despre-noi/relatii-internationale/doctor-honoris-causa/ http://prev.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_al__universitatii_maritime_din_constanta Since 2018, **Corresponding member of the Romanian Academy**, the highest scientific and cultural forum in Romania http://www.acad.ro/sectii/sectia08_tehnica/teh_membri.htm
Main activities and responsibilities	Teaching, research, supervising PhD, Master students and Bachelor students. Supervising also post-doctoral fellows. 2008-2011, Institutional Responsible with Structural Funding Since 2012 member in the commission of Mechanical Engineering of CNATDCU, National Council for Recognition of Degrees, Diplomas and Certificates, http://www.cnatdcu.ro/ 2016-2017, vicepresident of the commission of Mechanical Engineering of CNATDCU 2017-2020, president of the commission of Mechanical Engineering of CNATDCU
Name and address of employer	Dunarea de Jos Galati University, http://www.ugal.ro/ 111, Domneasca St., 80008 Galati, Romania,
Type of business or sector	Public University
Dates	Since September 2007 (also)
Occupation or position held	Professor (collaborator) http://www.centec.ist.utl.pt/en/centec/personnel.aspx?id=1

Main activities and responsibilities	Scientific research, focused mainly on: survey, modelling and analysis of the environmental data along the navigation routes and harbour areas correlated with the natural and technological risks that may occur in these zones. During the period, 2009-2011, manager at the project NEARPORT - Development of a real-time nearshore wave prediction system for the Portuguese ports, 112 000 Euro – project granted by the Portuguese Foundation for Science and Technology with EU funding, http://www.mar.ist.utl.pt/nearport/en/home.aspx. Another important issue related to the most recent research interests concern the evaluation of the renewable energy resources in the marine environment, together with efficiency assessments performed for various energy converters in different coastal environments. Finally, studies of the possible coastal impacts in the shoreline dynamics of the future marine energy parks are also currently carried out. This is because such marine energy parks can play an important role also in the coastal protection.
Name and address of employer	CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal, http://www.mar.ist.utl.pt/en/index.aspx Av. Rovisco Pais, 1049-001 Lisbon, Portugal
Type of business or sector	Public University – Research Centre
Dates	June – December 2005
Occupation or position held	**Consulting scientist**
Main activities and responsibilities	Modelling hydrodynamic processes in coastal environments, analysis of environmental data
Name and address of employer	**NATO Undersea Research Centre**, http://www.nurc.nato.int/, Viale S. Bartolomeo, 400 19138 La Spezia, Italy (presently NATO Centre for Maritime Research and Experimentation)
Type of business or sector	NATO Research Unit
Dates	September 1982 - March 2001
Occupation or position held	Successively, positions from research engineer to Associate Professor (Senior Lecturer)
Main activities and responsibilities	Teaching and research
Name and address of employer	Dunarea de Jos Galati University, http://www.ugal.ro/ 111, Domneasca St., 80008 Galati, Romania,
Type of business or sector	Public University

Education and training

Dates	September 1999 - September 2004
Title of qualification awarded	Postdoctoral specialization
Principal subjects/occupational skills covered	Survey and analysis of the environmental data. Predictions of the environmental parameters with numerical models. Assessment of the natural and technological risks in ocean and coastal environment.
Name and type of organization providing education and training	Instituto Hidrográfico da Marinha Portuguesa, Lisbon, Portugal; http://www.hidrografico.pt Portuguese National Laboratory.
Dates	October 1990 – May 1997
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Studies concerning wave propagation and impact in coastal environment Thesis title: *'Analytical Mechanics of Continuous Media with Application to Marine Technology'*
Name and type of organization providing education and training	University *"Dunarea de Jos"* of Galati, Romania co-supervision in collaboration with the National Technical University of Athens (under the co supervision of Prof. G. A. Athanassoulis, http://www.researchgate.net/profile/Gerassimos_Athanassoulis)
Dates	October 1977 – July 1982
Title of qualification awarded	Naval Architect, head of series of graduates
Principal subjects/occupational skills covered	Naval and Marine engineering
Name and type of organization providing education and training	University *"Dunarea de Jos"* of Galati, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
Portuguese	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
Italian	C1 Proficient user	C1 Proficient user	B1 Independent user	B1 Independent user	B1 Independent user
French	B1 Independent user	B2 Independent user	A2 Basic user	A1 Basic user	A1 Basic user
Spanish	A2 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A1 Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences

- Teamwork: I have worked in various research teams and most of my major publications were resulted from working in a team. As project manager in Portugal I was also coordinating a research team.
- Good ability to adapt to multicultural environments, gained through my work experience abroad: I performed scientific work in various countries, especially in Greece, Portugal and Italy and this gave me the ability to adapt very quickly to multicultural environments and, on the other hand, gave me the facility of a better understanding of the multicultural issues in general.
- Good communication skills: First of all I am a University Professor and I have to deal with a lot of students (series from 20 to 200 students), so human communication are in some sense my job. On the other hand, I have also a very large experience in participating in international meetings since I have participated in the last 10 years to more than 50 such meetings in various countries as: Austria, Belgium, Bulgaria, Canada, Croatia, France, Greece, Italy, Moldova, Portugal, Romania, Serbia, Spain, Thailand and Turkey, where I presented communications that were usually extremely well received by the audience.

Organisational skills and competences

In my home University (Galati University) I was for a 4-year period (2008-2011) Institutional responsibilities with structural Funding and I was leading a team of more than 20 people.
As a manager in Portugal (at the NEARPORT project) I was also leading a team of 7 persons
I am currently supervising PhD, Master and Bachelor students in Romania, Portugal and Spain.

Technical skills and competences

I am a University Professor in Engineering, so it is supposed that I have accumulated during the time considerable competencies and skills in various technical areas related to my main fields of expertise (Marine and Mechanical Engineering, Renewable Energy).
Moreover, due to my current scientific work I have special competencies as regards environmental data measurements and analysis. During my work at NATO, I had the opportunity to enter in contact with the most evaluated tools and techniques related with environmental data analysis and measurements. On the other hand, as evaluator FP7 and Horizon 2020 for the European Commission I had the opportunity to evaluate the most advanced research projects in the area of the technologies to extract the renewable energy from the marine environment.

Computer skills and competences

- very good command of Microsoft Office tools (Word, Excel and PowerPoint);
- good command of graphic design applications (Paint Shop Pro, Photo Shop, etc)
- extremely good command of Matlab (I developed computer software that is currently used by NATO as reflected also by the publication: A Hybrid Framework for Predicting Waves and Longshore Currents, http://dx.doi.org/10.1016/j.jmarsys.2007.02.009 Journal of Marine Systems 69 (2008) 59–73.

Other skills and competences

- I have a great capacity of concentration on my work and focus on the most essential issues. This is reflected somehow also in my list of publications;
Recognized reviewer: http://www.reviewerpage.com/E--Rusu

In 2015 received the award: Outstanding Contribution in Reviewing, Renewable Energy, ELSEVIER, in 2016 received the award: Outstanding Contribution in Reviewing, Ocean Engineering, ELSEVIER
https://www.researchgate.net/publication/286383778_Certificate_of_Outstanding_Contribution_in_Reviewing_Renewable_Energy_ELSEVIER
https://www.researchgate.net/publication/313063992_Outstanding_Contribution_in_Reviewing_Ocean_Engineering_Elsevier

Diploma **Top 1% World Reviewer in the field of Engineering** (2018, 2029), **Top 1% World Reviewer in the field of Cross Field** (2019),
https://publons.com/researcher/1170248/eugen-rusu
Diploma ***Certificate Energies 10th Anniversary Best Paper***, 2018.

Program chair ICACER Conferences (International Conference of advances in Energy Research) , years 2017-2021 http://icacer.com/com.html
Program chair ICEEEP Conferences – International Conference on Energy Economics and Energy Policy , years 2018-2021, http://www.iceeep.com/com.html
Program committee International Joint Conference on Clean Energy and Smart Grid (CCESG 2019, 2020)**,** http://www.ccesg.org/, Conference on Frontiers of Energy and Environment Engineering (CFEEE 2019, 2020) http://www.cfeee.org/ - **certicficate of Best Reviewer**
- I have been member in various scientific committees (for example IMAM – International Maritime Association of the Mediterranean 2005, 2007, 2009, 2011)
http://www.mar.ist.utl.pt/imam2005/commitee.aspx
IWEEE2013 http://www.iweee.ugal.ro/
AMMA2013 http://amma2013.utcluj.ro/committees.html
EMR 2015 http://www.emr2015.org/committees.html
ICACER 2016 2021 http://www.icacer.com/com.html

Professional organizations (OCEANEXPERT http://oceanexpert.org ; MARTEC, http://www.iode.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477 http://ioc-unesco.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477
2017, Member of the evaluation panel of the research centre MaREI (Cork Irleand) appointed by SFI, Science Foundation Ireland http://www.sfi.ie/
Organizing committee member, 2nd Edition of Global Summit on Renewable Energy & Emerging Technologies (2018), https://renewableenergy.euroscicon.com/organizing-committee
Technical committee member, International Maritime Association of the Mediterranean, IMAM2017 http://www.imamhomepage.org/imam2017/structure.aspx
Scientific committee member - 2nd International Symposium on Natural Hazards and Disaster Management (ISHAD2018), http://ishad.info/Content/Pages/Committees.aspx
Organizing committee member, 2018 International Conference on Clean Energy and Smart Grid (CCESG2018)**,** http://www.ccesg.org/
Workshop DAMWAVE http://www.im.ugal.ro/DAMWAVE/index_files/Flyer_Damwave_RO.jpg
OCEANEXPERT http://oceanexpert.org ; MARTEC www.innovamar.org, http://www.iode.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477), http://ioc-unesco.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477

Driving licence

Category B

Additional information

- **FP7 - International Expert Evaluator, the calls -SMARTCITIES-2013 FP7-ENERGY-2013-1**
http://www.2020-horizon.com/Design-tools-enabling-technologies-and-underpinning-research-to-facilitate-ocean-energy-converter-arrays-i905.html
http://ec.europa.eu/research/participants/data/ref/fp7/list_fp7_experts/cooperation/energy/energy_2013_en.xlsx
H2020 International Expert Evaluator (Energy)
http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-expertslists-excellent-erc
International Expert Evaluator, Programme ERANet-LAC (2016);
- International Expert Evaluator for the Bulgarian National Fund - 73 projects evaluated in 2008 and 2009 in the fields of renewable energy and environment and selected also for 2017
- http://www.eufunds.bg/en/all-news/item/16913-results-from-th
- International Expert Evaluator- MARTEC;
- International Expert Evaluator / South-East Europe Program;
- Expert (ETS) in the national projects DOCIS, PERFORM and PhD EXPERT, financed from the European Social Fund. http://www.phd-expert.ugal.ro/contact.htm
- International reviewer (Journal of Marine Systems, Ocean Engineering, Renewable Energy, Energy Conversion and Management, Journal of Environmental Radioactivity, Journal of Coastal Research, International Journal of Green Energy, Environmental Engineering and Management Journal, IMAM and OMAE conferences), more than 50 scientific works reviewed in the last five years;
- Institutional responsible with the bilateral cooperation program for joint PhD co-supervision between UDJG and IST Lisbon:
- National evaluator CNCSIS, with more than 50 projects evaluated in the last five years;
- National evaluator CNMP (National Centre of Project Management) in the fields of Defense and National Security (16 projects evaluated);
- Included in the Romanian National Portal of the Scientists;

Editor-in-Chief of Journal of Marine Science http://ojs.bilpublishing.com/index.php/jms
Senior Editor,International Journal of Advanced Alternative Energy, Environment and Ecology
http://scientific.cloud-journals.com/index.php/IJAAEEE/about/editorialTeam
Guest Editor: Energies, Special Issues "Offshore Renewable Energy: Ocean Waves, Tides and Offshore Wind" www.mdpi.com/journal/energies/special_issues/offshore
www.mdpi.com/journal/energies/special_issues/marine ,
www.mdpi.com/journal/energies/special_issues/ocean

- **Associate Editor,** Journal: Frontiers in Marine Science, section Ocean Engineering, Technology, and Solutions for the Blue Economy,
- http://journal.frontiersin.org/journal/marine-science/section/ocean-engineering-technology-and-solutions-for-the-blue-economy
- **Member in the Editorial Boards of:**
- Advanced Shipping and Ocean Engineering (ASOE)
- http://www.academicpub.org/asoe/editorialBoard.aspx

International Journal Ocean Systems Engineering
http://www.techno-press.org/?journal=ose&subpage=7
Satellite Oceanography and Meteorology
http://ojs.whioce.com/index.php/som/about/editorialTeam
Journal of Marine Science and Engineering
https://www.mdpi.com/journal/jmse/editors
Journal of Environmental & Earth Sciences
http://ojs.bilpublishing.com/index.php/jees/about/editorialTeam
Hydro Science & Marine Engineering,
http://ojs.bilpublishing.com/index.php/hsme/about/editorialTeam

Publons: https://publons.com/researcher/1170248/eugen-rusu/
SCOPUS ID: http://www.scopus.com/authid/detail.url?authorId=24450974700
Google Academic: https://scholar.google.com.br/citations?user=-0cQG-IAAAAJ&hl=ro
Researchgate: https://www.researchgate.net/profile/Eugen_Rusu/?ev=hdr_xprf
ORCID: http://orcid.org/0000-0001-6899-8442
Included in: world ranking of scientist (2%).xlsx
Brain map: https://www.brainmap.ro/profile/Rusu-Eugen
Press related releases or other mentions (in Romanian and Portuguese)
http://www.viata-libera.ro/prima-pagina/77150-performante-universitare-internationale-o-familie-de-specialisti-galateni-studiaza-valurile
http://galateni.net/forum/topic/3294-profesorul-eugen-rusu-si-colaborarile-sale-militare/
http://www.viata-libera.ro/educatie/51601-galati-viata-libera-studenti-erasmus-cu-licenta-_documentata-la-galati
http://prev.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_al_universitatii_maritime_din_constanta
http://websig.hidrografico.pt/www/content/documentacao/hidromar/2002/hidromar73.pdf

ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A - PUBLICATIONS IN INTERNATIONAL JOURNALS (SELECTED)

1. Rusu, E., 2020, An evaluation of the wind energy dynamics in the Baltic Sea, past and future projections, Renewable Energy, Volume 160, November 2020, Pages 350-362, https://doi.org/10.1016/j.renene.2020.06.152

2. Andrés Ruiz, Florin Onea and Eugen Rusu, 2020,Study Concerning the Expected Dynamics of the Wind Energy Resources in the Iberian Nearshore, *Energies* 2020, *13*(18), 4832; https://doi.org/10.3390/en13184832

3. Florin Onea , Andrés Ruiz and Eugen Rusu, 2020, An Evaluation of the Wind Energy Resources along the Spanish Continental Nearshore, *Energies* 2020, *13*(15), 3986; https://doi.org/10.3390/en13153986

4. Kostas Belibassakis, Alexandros Magkouris and Eugen Rusu, 2020, A BEM for the Hydrodynamic Analysis of Oscillating Water Column Systems in Variable Bathymetry, *Energies* 2020, *13*(13), 3403**;** https://doi.org/10.3390/en13133403

5. Alina Beatrice Raileanu , Florin Onea and Eugen Rusu, 2020, Implementation of Offshore Wind Turbines to Reduce Air Pollution in Coastal Areas—Case Study Constanta Harbour in the Black Sea, *J. Mar. Sci. Eng.* 2020, *8*(8), 550; https://doi.org/10.3390/jmse8080550

6. Alina Beatrice Raileanu , Florin Onea and Eugen Rusu, 2020, An Overview of the Expected Shoreline Impact of the Marine Energy Farms Operating in Different Coastal Environments, *J. Mar. Sci. Eng.* 2020, *8*(3), 228; https://doi.org/10.3390/jmse8030228

7. Catalin Anton , Carmen Gasparotti , Iulia Anton and Eugen Rusu, 2020 Implementation of a Coastal Management Model at Kinvara Bay in the North Atlantic Ocean, *J. Mar. Sci. Eng.* 2020, *8*(2), 71; https://doi.org/10.3390/jmse8020071

8. Rusu, E., 2019, A 30-year projection of the future wind energy resources in the coastal environment of the Black Sea, Renewable Energy, Volume 139, August 2019, Pages 228-234, https://www.sciencedirect.com/science/article/pii/S0960148119302368.

9. Rusu, E., Onea, F., An assessment of the wind and wave power potential in the island environment, Energy, Volume 175, 15 May 2019, Pages 830-846, https://doi.org/10.1016/j.energy.2019.03.130

10. Rusu, E., Onea, F., A parallel evaluation of the wind and wave energy resources along the Latin American and European coastal environments, Renewable Energy, Volume 143, December 2019, Pages 1594-1607, https://doi.org/10.1016/j.renene.2019.05.117

11. Laurentiu Picu , Mihaela Picu and Eugen Rusu, 2019, An Investigation into the Health Risks Associated with the Noise and Vibrations on Board of a Boat—A Case Study on the Danube River, *J. Mar. Sci. Eng.* 2019, *7*(8), 258; https://doi.org/10.3390/jmse7080258

12. Florin Onea and Eugen Rusu, 2019, An Assessment of Wind Energy Potential in the Caspian Sea, *Energies* 2019, *12*(13), 2525; https://doi.org/10.3390/en12132525

13. Markos Bonovas , Kostas Belibassakis and Eugen Rusu, 2019, Multi-DOF WEC Performance in Variable Bathymetry Regions Using a Hybrid 3D BEM and Optimization, *Energies* 2019, *12*(11), 2108; https://doi.org/10.3390/en12112108

14. Aleix Maria-Arenas , Aitor J. Garrido , Eugen Rusu and Izaskun GarridoAddendum: Maria-Arenas, A. et al. Control Strategies Applied to Wave Energy Converters: State of the Art. *Energies 2019, 12, 3115*, *Energies* 2020, *13*(7), 1665; https://doi.org/10.3390/en13071665

15. Akpinar, Adem; Jafali, Halid; Rusu, Eugen, 2019, Temporal Variation of the Wave Energy Flux in Hotspot Areas of the Black Sea Web of Science, *Sustainability* **2019**, *11*(3), 562; https://doi.org/10.3390/su11030562

16. Florin Onea and Eugen Rusu, 2019,The Expected Shoreline Effect of a Marine Energy Farm Operating Close to Sardinia Island, *Water* **2019**, *11*(11), 2303; https://doi.org/10.3390/w11112303

17. Rusu, E., 2018, Study of the Wave Energy Propagation Patterns in the Western Black Sea, *Applied Sciences 8*(6), 993, https://doi.org/10.3390/app8060993

18. Rusu, E., 2018, Numerical Modeling of the Wave Energy Propagation in the Iberian Nearshore, *Energies 11*(4), 980, https://doi.org/10.3390/en11040980

19. Rusu, E., Onea, F., 2018, A review of the technologies for wave energy extraction, Clean Energy, 2018, 1–10, https://academic.oup.com/ce/advance-article/doi/10.1093/ce/zky003/4924611

20. Niculescu, D., Rusu, 2018, Evaluation of the new coastal protection scheme at Mamaia Bay in the nearshore of the Black Sea, Ocean Systems Engineering, Vol.8, No. 1 (2018), pp. 1-20. http://www.techno-press.org/?page=container&journal=ose&volume=8&num=1

21. Onea, F., Rusu, E., Onea, F., 2018, Sustainability of the Reanalysis Databases in Predicting the Wind and Wave Power along the European Coasts, Sustainability Journal, http://www.mdpi.com/2071-1050/10/1/193

22. Rusu, E., Onea, F., 2017, Joint Evaluation of the Wave and Offshore Wind Energy Resources in the Developing Countries, *Energies* 2017, *10*(11), 1866; http://www.mdpi.com/1996-1073/10/11/1866

23. Rusu, E., Onea, F., 2017, Hybrid Solutions for Energy Extraction in Coastal Environment, Energy Procedia, DOI: 10.1016/j.egypro.2017.07.

24. Onea, F., Ciortan, S., Rusu, E., 2017, Assessment of the potential for developing combined wind-wave projects in the European nearshore, SAGE Journals, Energy & Environment, 2017, 010 http://journals.sagepub.com/doi/abs/10.1177/0958305X17716947

25. Ganea, D., Amorțilă, V., Mereuță, E., Rusu, E., 2017, A Joint Evaluation of the Wind and Wave Energy Resources Close to the Greek Islands, Sustainability Journal, Special Issue Wind Energy, Load and Price Forecasting towards Sustainability, 2017, 9(6), 1025; doi:10.3390/su9061025,, http://www.mdpi.com/2071-1050/9/6/1025

26. 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, http://dx.doi.org/10.1016/j.renene.2015.07.042

26.. 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, http://dx.doi.org/10.1016/j.enconman.2016.02.020

28. Rusu, E., Raileanu, A, 2016, A multi parameter data assimilation approach for wave predictions in coastal areas, *Journal of Operational Oceanography*, Volume: 9 Issue: 1 Pages: 13-25, http://dx.doi.org/10.1080/1755876X.2016.1192013

29. 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, Vol 34 (2), pp. 217-234. http://eea.sagepub.com/cgi/reprint/0144598716629872v1.pdf?ijkey=XVTtfIWsevdeozD&keytype=finite

30. Makris, C., Galiatsatou, P., Tolika, K., ... & Rusu, E., 2016, Climate change effects on themarine characteristics of the Aegean and Ionian Seas, Ocean Dynamics, in press, DOI 10.1007/s10236-016-1008-1, http://rdcu.be/lL9L

31 Onea, F., Rusu E, 2016, The expected efficiency and coastal impact of a hybrid energy farm operating in the Portuguese nearshore **,** Energy, Volume 97, 15 February 2016, Pages 411–423, http://www.sciencedirect.com/science/article/pii/S0360544216000128

32 . Silva, D., Rusu, E, Guedes Soares, C, 2016,. High-Resolution Wave Energy Assessment in Shallow Water Accounting for Tides, *Energies* 2016, *9*(9), 761, http://www.mdpi.com/1996-1073/9/9/761/htm

33. Rusu, E., 2016, Reliability and Applications of the Numerical Wave Predictions in the Black Sea, *Front. Mar. Sci.,* http://dx.doi.org/10.3389/fmars.2016.00095

34. Gonçalves, M, Rusu, E., and Guedes Soares, C., 2015, Evaluation of Two Spectral Wave Models in Coastal Areas, Journal of Coastal Research, Volume 31, Issue 2: 326-339, http://dx.doi.org/10.2112/JCOASTRES-D-12-00226.1

35. Onea, F.,Raileanu, A, Rusu E., 2015: Evaluation of the Wind Energy Potential in the Coastal Environment of two Enclosed Seas, *Advances in Meteorology 14p,* http://dx.doi.org/10.1155/2015/808617

36. Rusu, E., 2014. Evaluation of the Wave Energy Conversion Eiciency in Various Coastal Environments, *Energies* 2014, Special Issue Selected Papers from the 1st International e-Conference on Energies, 7(6) 4002-4018; http://www.mdpi.com/1996-1073/7/6/4002

37. Rusu, E., Diaconu, S, 2014: Costal impact of a wave dragon based energy farm operating on the near shore of the Black Sea, Indian Journal of Geo-Marine Sciences, 43 (2), pp. 163-175, http://nopr.niscair.res.in/handle/123456789/27272

38. Onea, F., Rusu E., 2014. Evaluation Of The Wind Energy In The North-West Of The Black Sea, International Journal of Green Energy, 11:5, 465-487, http://dx.doi.org/10.1080/15435075.2013.773513

39. Onea, F., Rusu E., 2014: Wind energy assessments along the Black Sea basin. *Meteorological Applications*, Vol 21, issue 2, pp. 316-329 http://onlinelibrary.wiley.com/doi/10.1002/met.1337/abstract

40. Zanopol, A., Onea, F., Rusu, E, 2014. Coastal impact assessment of a generic wave farm operating in the Romanian nearshore, *Energy,* 72 (8), 652-670, http://www.sciencedirect.com/science/article/pii/S0360544214006604

41. Rusu, L., Butunoiu, D., Rusu, E, 2014. Analysis of the extreme storm events in the Black Sea considering the results of a ten-year wave hindcast, *Journal of Environmental Protection and Ecology,* Vol. 15 (2), pp. 445-454, http://www.jepe-journal.info/vol-15-no-2-2014

42. Zanopol, A., 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,* Vol. 15 (2), pp. 597-605, http://www.jepe-journal.info/vol-15-no-2-2014

43. Zanopol, A., Onea, F., Rusu, E, 2014. Studies concerning the influence of the wave farms on the nearshore processes, International Journal of Geosciences, Vol 5 (7), pp. 728-738, http://www.scirp.org/journal/PaperInformation.aspx?PaperID=47121

44. Bento, A., R., Rusu, E., Martinho, P., Guedes Soares, C., 2014. Assessment of the changes induced by a wave energy farm in the nearshore wave conditions, Computers & Geosciences, Volume 71, October 2014, Pages 50–61, http://dx.doi.org/10.1016/j.cageo.2014.03.006

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24. Rusu, E., 1998: *Mecanica Clasica,* vol. II, *Dinamica si mecanica Analitica,* Editura Fundatiei Universitatii "Dunărea de Jos" din Galaţi, 182p, (in limba Romana).

25. Rusu, E., 1997: *Mecanica Clasica,* vol. I, *Statica si Cinematica,* Editura Fundatiei Universitatii "Dunărea de Jos" din Galaţi, 164p, (in limba Romana).

D - PARTICIPATION IN RELEVANT RESEARCH PROJECTS

D1.1 Responsible in international projects

1. NEARPORT (2009-2011) - Development of a real-time nearshore wave prediction system for the Portuguese ports, 112 000 Euro – project granted by the Portuguese Foundation for Science and Technology with EU funding (112 000 €), http://www.mar.ist.utl.pt/nearport/en/home.aspx

2. LUSOWAVES (2004-2008) - Development of an operational wave prediction system for the Portuguese coastal environment, individual research grant funded by the Portuguese Foundation for Science and Technology (http://www.fct.pt/index.phtml.en) with EU funding (62 000 €),
(Included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

3. ENVIRONMENTAL GUIDE for the wave and current conditions in the Portuguese nearshore (2001-2003), individual research grant funded by the Portuguese Foundation for Science and Technology (http://www.fct.pt/index.phtml.en) with EU funding (58 000 €),
(Included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

4. NEW TECHNIQUES FOR WAVE PREDICTIONS IN SHALLOW WATER (1999-2000), NATO Individual Research Grant (15 000 €).

D1.2 Responsible in national projects

5. REMARC (2017-2019) –Renewable energy extraction in marine environment and its coastal impact, PN-III-P4-ID-PCE-2016-0017, http://www.im.ugal.ro/REMARC/index.php

6. Influence of the wave conditions on the offshore operations and structures (1999). Romanian National Research Grant financed by the National Agency of Research, No. 9007/1999 item 122, (documentation in Romanian).

7. -*Launching Technology for Energy Cables,* Research. (1989), Proj. NR. 11/1989, for the National Institute of Energy I.C.P.E. Bucuresti, (documentation in Romanian).

D2 Participation as team member or post doc fellow

D2.1 International research projects, or abroad

8. EMODNET (2016-2018) – European Marine Observation and Data Network, the Black Sea Check Point, member of the expert panel, http://emodnet-blacksea.eu/expert-panel/

9. CCSEWAVS (2012-2014) - Estimating the effects of Climate Change on the sea level and wave climate of the Greek seas, coastal vulnerability and safety of coastal and marine structures funded by the Greek state participant as international expert).
http://thalis-ccseawavs.web.auth.gr/el/ http://thalis-ccseawavs.web.auth.gr/el/meetings/doc_download/35-wp2-ntua

10. EXTREME SEAS (2011) - Design for Ship Safety in Extreme Seas, http://www.mar.ist.utl.pt/en/centec/projects.aspx?id=1&projectid=95 DG RTD-H2-Transport, participation as post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

11. SAFEOFFLOAD (2011) Safe Offloading from Floating LNG Platforms http://www.mar.ist.utl.pt/safeoffload/ participation as a post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

12. HANDLING WAVES (2010) Decision Support System for Ship Operation in Rough Weather http://www.mar.ist.utl.pt/handlingwaves/home.aspx , participation as a post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

13. MARPORT (2007-2008) System to Forecast Wave Conditions in the Portuguese Ports https://www.apdl.pt/gca/index.php?id=1233153108 participation as a post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

14. RADMONITOR (2006-2008) Radar Monitoring of the sea states at the Port of Sines, participation as post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.
http://www.centec.tecnico.ulisboa.pt/en/centec/projects.aspx?projectid=97

15. FORWARD EYE (2005), NURC-FR-2006-014, a project developed at the NATO Undersea Research Centre (NURC), http://www.nurc.nato.int/, La Spezia Italy. Participation as project expert, responsible for the phase: A NATO tool for prediction of waves and longshore currents in the surf zone, http://www.nurc.nato.int/publications/reports_2006.htm

16. HYBRID SURF MODELING (2005), NURC-FR-2006-016, a project developed at the NATO Undersea Research Centre (NURC), http://www.nurc.nato.int/, La Spezia Italy, participation as project expert http://www.nurc.nato.int/publications/reports_2006.htm

17. MARSTRUCT (2004-2006) - a network of excellence on marine technology, team member from University Dunarea de Jos of Galati

18. MOCASSIM (2001-2004) - Development of national competencies for the implementation of oceanographic models with data assimilation, http://www.hidrografico.pt/mocassim.php , team member as a post doc fellow at the Hydrographic Institute of the Portuguese Navy.

19. DERIVA LITORAL(2003-2005),: Estimation of the Nearshore Currents in the Iberian Nearshore, team member as a post doc fellow at the Hydrographic Institute of the Portuguese Navy., Coordonator al fazelor: - Assessment of the Nearshore Circulation with the Quasi 3D Model SHORECIRC; -Development and Calibration of an Operational Model Based on the Results of the Linear and Second Order Theories

20, *PAMMELA* (2000-2003), *Prediction of the Nearshore Wave Conditions with Spectral Models,* team member as a post doc fellow at the Hydrographic Institute of the Portuguese Navy Coordonator al fazelor: - *Analysis of Wave Conditions in the Coastal Environment of Portugal by Using SWAN, Numerical Methods for Nowcasting the Wave Conditions of the Portuguese Nearshore*.

21. The incident generated by the accident of the oil-carrier – ***PRESTIGE*** (November 2002- February 2003) Member in the research team that provided the environmental support, in charge with wave predictions using spectral wave models.

22. NATO exercise- ***UNIFIED OYISSEY 2002*** (Ianuary- February 2002), Member of the team that provided the environmental support concerning the operational predictions of the oceanographic data during the NATO exercise

23. *Development of New Techniques for Prediction of Wave Conditions in the Coastal Environment*. (1998-1999)-Bilateral joint project between Greece & Romania financed both by Greek & Romanian governments, partners NTUA Greece- University of Galati, Romania, coordinator of Phase II, *Derivation and Implementation of a Novel Approach for the Description of the Intermediate-Depth Water-Wave Dynamics, Taking into Account Variable Bathymetry, Bottom Friction and Energy Dissipation Effects,* (documentation in English).

24. *EUROWAVES* (1996-1997)- International research project financed by European Community – members of the team coordinated by Prof. G. A. Athanassoulis, NTUA Greece, (documentation in English).

D2.2 Participation in national research projects

25. ACCWA (PN-III-P4-ID-PCE-2016-0028) – Evaluation of the effects of the climate changes on the wave conditions from the Black Sea (2017-2019), http://www.im.ugal.ro/ACCWA/index.php

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27. COSMOMAR (2014-2016) - Development of a center for spatial technologies dedicated to a sustainable development of the Romanian maritime and coastal zones, STAR program, participation as an expert (team member) at Grigore Antipa Research Institute in Constanta. http://www.cosmomar.ro/

28. *Dynamics of the Systems for the Hydrocarbons Transfer in the Marine Operations,* (part-III) - Final report -Grant nr. 7007/1997, poz. 30/277, October 1997, pag. 1-44.

29. *Stability of Underwater Moored Objects*. - Final report Grant nr. 5007/1996, poz. 1173, Oct 1996, pag. 1-21.

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31. *Dynamics of the Systems for the Hydrocarbons Transfer in the Marine Operations*, (part-I) - Final report -Grant nr. 4007/1995, poz. B10, Octombrie 1995, pag. 1-51.

32. *Study concerning installing of the pipeline for gases Ą14" by a free immersion method with floats*. Contract Nr. 5226/30.06.1993 - Beneficiary PETROSTAR Ploieşti.

33. *Study concerning the hydrodynamic characteristics of an imerse tracted container* Nr. 25/2.09.1991 - Beneficiary MApN – UM 02190 Constanţa.

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35. *The mechanical stress in the elastic compensation system that links the underwater pipelines* c *6, 5 / 8 //*, c *12, 3 / 4 // and the buo*, Contract Nr. 38 / 1988 - Beneficiary PETROMAR Constanţa.

36. *Simultaneous launching of four underwater pipelines* c *168 mm*, Contract Nr. 5/1988 Beneficiary PETROMAR Constanţa.

37. *A study concerning the resistance to the combined stress of the gas pipeline (16'' installed by free imersion method with floats,* Contract Nr. 5/1988 - Beneficiary PETROMAR Constanţa

38. *Theoretical and Experimental Research of the Hydrodynamic Forces Acting on a Floating Body.* Research project for the National Research Institute ICEPRONAV Galaţi, (documentation in Romanian). Contract Nr. 21 / 1987 - Beneficiary ICEPRONAV Galaţi.

39. *Study concerning the resistance to combined stress of the gas pipeline c 20'' installed by free immersion method with floats*, Contract Nr. 43/1987 - Beneficiary PETROMAR Constanţa.

40. *Float for the pipeline c 20'' - study and project*. Contract Nr. 44/1987 - Beneficiary PETROMAR Constanţa.

41. *A study concerning the residence of the pipelines' installed by free immersion method with floats,* Contract Nr. 41/1985 - Beneficiary PETROMAR Constanţa.

42. *Experimental research by tensometric measurements concerning the stress occurring in the arm of a ship crane subjected to static and dynamic loads*, Contract Nr. 62/1985 - Beneficiary IMN Galaţi.

43. *Analysis of the breaking cases of a 2000 tdw barge*, Contract Nr. 28/1980 - beneficiary ICEPRONAV Galaţi.

D3. Participation in projects financed by the European Social Fund (POSDRU)

44. DOCIS –POSDRU-/2/1.2/S/2 – Development of an operational system of the qualifications in the Romanian Higher Education System (Dezvoltarea unui sistem operational al calificarilor din invatamantul superior din Romania)- ETS (Responsible with the area of Mechanica Engineering)

45. PhD – EXPERT (POSDRU/21/1.5/G/19524) Increasing the quality in forming researchers in the framework of the doctoral programs improved by partnerships (Cresterea calităţii in formarea cercetătorilor pe baza de programe doctorale imbunătătite prin parteneriat, ETS)

46. SIMBAD - Proiectul POSDRU – 6/1.5/S/15 - Management system for the scholarships granted to the PhD students (Sistem de Management al Burselor Acordate Doctoranzilor-SIMBAD) – 1 PhD student supervised

47. EFICIENT - Proiectul POSDRU/88/1.5/S761445– Eficientizarea activitatii studentilor din cadrul ciclului de studii doctorale-EFICIENT – 3 PhD students supervised

48. EXCELDOC (POSDRU/159/1.5/S/132397) - 1 post doc fellow and 1 PhD student supervised

49. PERFORM (POSDRU/159/1.5/S/138963) – ETS, 1 post doc fellow supervised

D4. Responsible in ERASMUS programs and other bilateral accords

50. Bilateral Agreement for the academic year 2015–2020 *Lifelong Learning Programme* (LLP)*:* HIGHER EDUCATION (ERASMUS+). Persoană de contact: Carlos Guedes Soares, Instituto Superior Tecnico-CENTEC, University of Lisbon, Portugal, şi Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, România.

51. Bilateral Agreement for the academic year 2014 *Lifelong Learning Programme* (LLP)*:* HIGHER EDUCATION (ERASMUS). Persoană de contact: Carlos Guedes Soares, Instituto Superior Tecnico-CENTEC, Technical University of Lisbon, Portugal, şi Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, România.

52. Bilateral Agreement for the academic year 2014–2015 *Lifelong Learning Programme* (LLP)*:* HIGHER EDUCATION (ERASMUS). Persoană de contact: Santos Martín, Francisco Javier, Universidad de Valladolid, Spania, şi Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, România.

53. Bilateral Agreement for the academic years 2010–2013 Lifelong Learning Programme (LLP): HIGHER EDUCATION (ERASMUS). Persoană de contact: Prof. Antonio M. Goncalves Coelho, Universidade Nova de Lisboa, Portugal, si Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, Romania.

54. Bilateral Agreement for the academic year 2010–2011 Lifelong Learning Programme (LLP): HIGHER EDUCATION (ERASMUS). Persoană de contact: Prof. Flavio Martins, Universidade do Algarve, Portugal, si Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, Romania.

55. Bilateral Agreement for the academic year 2010–2011 Lifelong Learning Programme (LLP): HIGHER EDUCATION (ERASMUS). Persoană de contact: Dr G. Panagiaris, Technological Educational Institution (T.E.I.) of Athens, si Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, Romania

56. Responsible for the bilateral international program of collaboration in the framework of the doctoral studies between UDJG and Technical University of Lisbon (starting with 2006), Contact person Prof.: Carlos Guedes Soares, Instituto Superior Tecnico-CENTEC, University of Lisbon, Portugal, and Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galaţi, România.

57. Participation to a 3-month TEMPUS Programme at NTUA (National Technical University of Athens) Greece, 1997.

E. PhD STUDENTS AND POST DOC FELLOWS SUPERVISED

E1. PhD theses supervised and finalized

1. Dorin Butunoiu (PhD thesis finalized in 2012), Implementation of a wave prediction system to increase the safety of the harbour operations in the Romanian nearshore.

2. Florin Onea (PhD thesis finalized in 2013), Studies Concerning the Renewable Energy Extraction in Marine Environment with Applications to the Black Sea Basin.

3. Angela Stela Ivan (PhD thesis finalized in 2013), Study of the coastal processes at the mouths of the Danube and evaluation of their impact on the human activities.

4. Sorin Diaconu (PhD thesis finalized in 2013), Studies regarding the Influence of Marine Energy Farms and Offshore Structures on Coastal Hydrodynamics

5. Robert Toderrascu (PhD thesis finalized in 2014), Study concerning the implementation of a system based on numerical models to evaluate the pollution propagation in the marine environment

6. Carmen Gasparotti (PhD thesis finalized in 2014), Researches and contributions on the increasing safety navigation in the Black Sea.

7. Andrei Tanase Zanopol (PhD thesis finalized in 2014), Researches and contributions concerning the dynamics of the coastal currents in the Romanian nearshore of the Black Sea..

8. Alina Beatrice Răileanu (PhD thesis finalized in 2016). Implementation of data assimilation methods to improve the wave predictions with spectral models in the Black Sea.

9. Dragos Niculescu (PhD thesis finalized in 2019). Study concerning the marine energy resources in the Black Sea.

E2. Post doc fellows supervised

1. Florin Onea (May 2014- November 2015). Research concerning the renewable energy resources in the Romanian coastal zones (Cercetari privind resursele de energie refolosibila in zonele costiere Romanesti ale Marii Negre) POSDRU project EXCELDOC..

2. Dorin Butunoiu (May 2014- November 2015). A study concerning the enhancement of the navigation safety and of the safety of the harbor operations in the Romanian nearshore (Studii privind cresterea sigurantei navigatiei si a operatiunilor portuare in Marea Neagra).POSDRU project PERFORM.

3. Alina Beatrice Răileanu (Sept 2019 - Aug 2020). Studies concerning enhancing the safety of the harbor operations adapted to the environmental conditions of the Black Sea. (POCU project – ANTREPRENORDOC)

Obs. More than other 50 bachelor and master students have been also supervised by myself in relationship with their graduation theses.

February 2021 **Eugen Rusu**