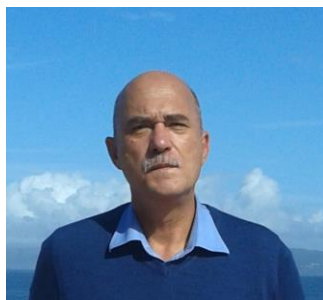




Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Eugen Victor Cristian RUSU**

Address(es)

Telephone(s)

Fax(es)

E-mail

Nationality

Date of birth

Gender

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
In 2015 received the award of Doctor Honoris Causa at the Maritime University of Constanza, Romania

http://www.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_al_universitatii_maritime_din_constanta

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/>

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	<p>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.</p> <p>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.</p>
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: <i>'Analytical Mechanics of Continuous Media with Application to Marine Technology'</i>
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

European level (*)

	Understanding		Speaking				Writing	
	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
Spanish	A2	Basic user	A2	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 five years to more than 25 such meetings in various countries as: Austria, Belgium, Bulgaria, Canada, France, Greece, Italy, Moldova, Portugal, Romania, Spain 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.https://www.researchgate.net/profile/Eugen_Rusu/contributions

- 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/committee.aspx>

<http://www.imamhomepage.org/imam2007/structure.aspx>, <http://www.emr2015.org>

<http://www.imam2009.itu.edu.tr/organization.html> <http://www.imam2011.it/Committees.html>

IWEEE2013 <http://www.iweee.ugal.ro/>

AMMA2013 <http://amma2013.utcluj.ro/committees.html>

EMR 2015 <http://www.emr2015.org/committees.html>

ICACER 2016, <http://www.icacer.com/com.html>

and 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

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 for the Bulgarian National Fund - 73 projects evaluated in 2008 and 2009 in the fields of renewable energy and environment;
- 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;
- 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>
 - Journal of Shipping and Ocean Engineering
<http://www.davidpublishing.org/davidpublishing/journals/J6/ship2011/ocean2011/395.html>
 - Journal of Geological Resource and Engineering (ISSN 2328-2193)
http://www.davidpublishing.org/journals_info.asp?id=1553#
 - International Journal of Advanced Alternative Energy, Environment and Ecology
<http://scientific.cloud-journals.com/index.php/IJAAEE/about/editorialTeam>

Lead Guest Editor, Advances in Meteorology, Special issue Wind and Wave Predictions in Marine Environments
<http://www.hindawi.com/journals/amete/si/320878/cfp/>

- **Associate Editor**, Journal: Frontiers in Marine Science, section Ocean Engineering, Technology, and Solutions for the Blue Economy, www.frontiersin.org

Researcher ID: <http://www.researcherid.com/rid/B-6766-2011>
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>
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-studiaz-a-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://www.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>
<https://fenix.tecnico.ulisboa.pt/downloadFile/395137910255/dissertacao.pdf>
<http://cpoalelungi.blogspot.ro/2015/07/eugen-rusu-fitness-cerebral.html>
<http://ciumburlia.blogspot.ro/2015/07/de-aici-din-scoala-politehnica-galateana.html>

ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A - PUBLICATIONS IN INTERNATIONAL JOURNALS (SELECTED)

1. 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>
2. 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>
3. 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?ikey=XVTfIWsevdeozD&keytype=finite>
4. 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>
5. 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>
6. 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>
7. Rusu, E., 2014. Evaluation of the Wave Energy Conversion Efficiency in Various Coastal Environments, *Energies* 2014, Special Issue [Selected Papers from the 1st International e-Conference on Energies](http://www.mdpi.com/1996-1073/7/6/4002), 7(6) 4002-4018; <http://www.mdpi.com/1996-1073/7/6/4002>
8. Rusu, E., Diaconu, S., 2014: Coastal 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>
9. 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>
10. 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>
11. Zanol, 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>
12. 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.ijepe-journal.info/vol-15-no-2-2014>
13. Zanol, 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.ijepe-journal.info/vol-15-no-2-2014>
14. Zanol, 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>
15. 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>
16. Zanol, A., 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>
17. Toderascu, R., Rusu, E., 2014, Implementation of a Joint System for Waves and Currents in the Black Sea, *International Journal of Ocean System Engineering* 4(1) (2014) 28-41,
http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/download/volume/kcore/E1GPBT/2014/v4n1/E1GPBT_2014_v4n1_29.pdf
18. Rusu, E and Guedes Soares, C., 2013, Coastal impact induced by a Pelamis wave farm operating in the Portuguese nearshore, *Renewable Energy* 58, 34-49 <http://dx.doi.org/10.1016/j.renene.2013.03.001>
19. Rusu, E., Onea, F., 2013: Evaluation of the wind and wave energy along the Caspian Sea, *Energy*, Vol 50, pp. 1-14, <http://dx.doi.org/10.1016/j.energy.2012.11.044>

20. Silva, D., Rusu, E., Guedes Soares, C., 2013, Evaluation of Various Technologies for Wave Energy Conversion in the Portuguese Nearshore, *Energies*, 6(3), 1344-1364, <http://www.mdpi.com/1996-1073/6/3/1344>
21. Diaconu, S., Rusu, E., 2013. The environmental impact of a Wave Dragon array operating in the Black Sea, *The Scientific World Journal*, pp. 1-20, <http://www.hindawi.com/journals/tswj/aip/498013/>
22. Toderascu, R., Rusu, E., 2013, Evaluation of the Circulation Patterns in the Black Sea Using Remotely Sensed and *in Situ* Measurements, *International Journal of Geosciences*, Vol 4 (7), 1009-1017, <http://dx.doi.org/10.4236/ijg.2013.47094>
23. 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*, 2013, 1(2), <http://www.ijern.com/images/February-2013/24.pdf>
24. Rusu, E. and Guedes Soares, 2013: Modeling waves in open coastal areas and harbors with phase resolving and phase averaged models, *Journal of Coastal Research*, 29 (6) 1309-1325, <http://www.icronline.org/doi/abs/10.2112/JCOASTRES-D-11-00209.1>
25. Gasparotti, C., Raileanu, A. & Rusu E., 2013, New Strategies for the Waste Management in the Black Sea Region, *EuroEconomica*, 2013, issue 2(32), pages 79-92, <http://EconPapers.repec.org/RePEc:duq:journl:y:2013:i:2:p:79-92>
26. Rusu, E., Guedes Soares, C., 2012: Wave energy pattern around the Madeira islands. *Energy*, Vol. 5, Issue 1, pp 771-785. <http://dx.doi.org/10.1016/j.energy.2012.07.013>
27. Butunoiu, D., Rusu, E. 2012: Sensitivity tests with two coastal models, *Journal of Environmental Protection and Ecology*, Vol. 13 (3), pp. 1332-1349, <http://www.jepe-journal.info/journal-content/vol-13-no3-2012>
28. Ivan, A., Gasparotti, C., Rusu, E., 2012: Influence of the interactions between waves and currents on the navigation at the entrance of the Danube delta. Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue. *Journal of Environmental Protection and Ecology*, Vol. 13 (3A), pp 1673-1682, <http://www.jepe-journal.info/journal-content/vol13-no-3a>
29. Gasparotti, C., Rusu, E., 2012: Methods for the risk assessment in maritime transportation in the Black Sea basin. Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue, *Journal of Environmental Protection and Ecology*, 13 (3A), pp 1751-1759, <http://www.jepe-journal.info/journal-content/vol13-no-3a>
30. Butunoiu, D., Rusu, E., 2012: A Matlab interface associated with modeling surface waves in the nearshore, Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue, *Journal of Environmental Protection and Ecology*, 13 (3A), pp 1606-1816 <http://www.jepe-journal.info/journal-content/vol13-no-3a>
31. Rusu, E., 2011: Strategies in using numerical wave models in ocean/coastal applications. *Journal of Marine Science and Technology- Taiwan*, Vol. 19, No. 1, pp 58-73. <http://jmst.ntou.edu.tw/marine/19-1/58-75.pdf>
32. Rusu, E., Gonçalves, M. and Guedes Soares, C., 2011: Evaluation of the wave transformation in an open bay. *Ocean Engineering*, Vol. 38, 16, pp 1763-1781, <http://dx.doi.org/10.1016/j.oceaneng.2011.08.005>
33. Rusu, E. and Guedes Soares, C., 2011: Wave modeling at the entrance of ports. *Ocean Engineering*, Vol. 38, 17-18, pp 2089-2109 <http://dx.doi.org/10.1016/j.oceaneng.2011.09.002>
34. Rusu, E., 2011: A MATLAB toolbox associated with modeling coastal waves. *Current Development in Oceanography*, Volume 2, Number 1, pp 17-52, <http://www.pphmj.com/journals/articles/749.htm>
35. Rusu, E. and Guedes Soares, C., 2010: Validation of Two Wave and Nearshore Current Models. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, Volume 136, Issue 1, January/February 2010, pp 27-45. [http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000023](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000023)
36. Rusu, E., 2010: Modeling of wave-current interactions at the Danube's mouths. *Journal of Marine Science and Technology*, Vol. 15, Issue 2, pp 143-159. <http://dx.doi.org/10.1007/s00773-009-0078-x>
37. Rusu, E. and Guedes Soares C., 2009: Numerical modeling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. *Renewable Energy*, Elsevier, Volume 34, Issue 6, pp 1501-1516, <http://dx.doi.org/10.1016/j.renene.2008.10.027>
38. Rusu, E., 2009: Wave energy assessments in the Black Sea. *Journal of Marine Science and Technology*, Springer, Volume 14, Issue 3 pp. 359-372. <http://dx.doi.org/10.1007/s00773-009-0053-6>
39. Rusu, E. and Macuta, S., 2009: Numerical Modelling of Longshore Currents in Marine Environment. *Environmental Engineering and Management Journal*, January/February 2009, Vol.8, No.1, pp 147-151. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no1/33_Rusu.pdf
40. Rusu, E., Conley, D.C. and Coelho, E.F., 2008: A Hybrid Framework for Predicting Waves and Longshore Currents. *Journal of Marine Systems*, Volume 69, Issues 1-2, pp 59-73. <http://dx.doi.org/10.1016/j.jmarsys.2007.02.009>
41. Rusu, E., Guedes Soares C. and Pilar, P., 2008: Evaluation of the Wave Conditions in Madeira Archipelago with Spectral Models. *Ocean Engineering*, Volume 35, Issue 13, September 2008, pp 1357-1371 <http://dx.doi.org/10.1016/j.oceaneng.2008.05.007>
- Observation:** this article is included as reference in the homepage of the SWAN model, <http://swanmodel.sourceforge.net/> (section SWAN related publications, position 35).
42. Rusu, E., Silva, R., Soares, C.V. and Rusu, L., 2003: Wave Forecast in the Coastal Environment Affected by M/V Prestige Breakdown, *Thalassas International Journal of Marine Science*, Madrid, Spain, Vol 19 (3), pp 161-162. Special issue containing the papers presented at the 4th Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July. (work included in the database http://www.noc.soton.ac.uk/gg/EUROSTRATAFORM/resources/portug_ref.html)

43. Pinto, J. P., Rusu, E., Silva, R. and Soares, C.V., 2003: Large Scale Wave Model Predictions for the Iberian Western Coast. *Thalassas – An International Journal of Marine Science*, Vol 19 (3), pp 159-160, Special issue containing the papers presented at the 4th Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July. <http://geoma.net/ediciones/thalassas1.pdf>
44. Onofre, M., Vitorino, J., Pinto, J.P. and Rusu, E., 2003: Apoio Ambiental ao SWORDFISH 2003 (The Environmental Support to the Exercise SWORDFISH 2003). *Boletim de Instituto Hidrográfico*, Lisbon, Portugal, Hidromar, N° 76 Mar/Abr, pp 1-5 (in portuguese). <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar76.pdf>
45. Ezequiel, M., Soares, C.V., Baptista, R., Pacheco, B., Fernandes, S., Barata, S., Santos, Q., Almeida, S., Silva, J., Vitorino, J., Clemente, C., Silva, R., Rusu, E., Aguiar, J., 2003: O Papel do INSTITUTO HIDROGRÁFICO no Acompanhamento e Previsão da Deriva do Fuel Derramado pelo Navio Prestige (The Role Played by the Hydrographic Institute in Following and Predicting the Drift of the Oil Released by M/V Prestige). *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 16, 2002-2003, pp. 7-12 (in portuguese). http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf (included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>)
46. Rusu, E., Soares, C.V., 2002: Total Wave – a Tool to Assess the Nearshore Wave Conditions. *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 16, 2002-2003, pp. 25-35, http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf
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B - PUBLICATIONS IN THE PROCEEDINGS OF RELEVANT INTERNATIONAL CONFERENCES (SELECTED)

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141. Rusu, E., 2000: *New Techniques For Studying Wave Dynamics in Shallow Water*, Editura Galateea Galați, Romania, 85p, (in limba Engleza).
142. Rusu, E., 2000: *Mecanica analitica a valurilor - metode numerice*, Editura Academica, 156p, (in limba Romana).
143. Rusu, E., 1998: *Mecanica Clasica*, vol. II, *Dinamica si mecanica Analitica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 182p, (in limba Romana).
144. Rusu, E., 1997: *Mecanica Clasica*, vol. I, *Statica si Cinematica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 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. 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).
6. *-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

7. 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/>
8. 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
9. 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.
10. 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.
11. 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.
12. 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.

13. 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>
14. 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
15. 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
16. MARSTRUCT (2004-2006) - a network of excellence on marine technology, team member from University Dunarea de Jos of Galati
17. 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.
18. 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
19. 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.*
20. 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.
21. NATO exercise- **UNIFIED OYISSEY 2002** (January- February 2002), Member of the team that provided the environmental support concerning the operational predictions of the oceanographic data during the NATO exercise
22. *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).
23. **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

24. DAMWAVE (2013-2015), Implementation of data assimilation methods to improve the wave predictions in the Romanian nearshore, CNCS – UEFISCDI, project number PN-II-ID-PCE-2012-4-0089, <http://www.im.ugal.ro/DAMWAVE/index.htm>
25. 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.
26. *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.
27. *Stability of Underwater Moored Objects*. - Final report Grant nr. 5007/1996, poz. 1173, Oct 1996, pag. 1-21.
28. *Dynamics of the Systems for the Hydrocarbons Transfer in the Marine Operations*, (part-II) - Final report -Grant nr. 5007/1996, poz. 1174, Octombrie 1996, pag. 1-27.
29. *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.
30. *Study concerning installing of the pipeline for gases Ø14" by a free immersion method with floats.* Contract Nr. 5226/30.06.1993 - Beneficiary PETROSTAR Ploiești.
31. *Study concerning the hydrodynamic characteristics of an imerse tracted container* Nr. 25/2.09.1991 - Beneficiary MApN – UM 02190 Constanța.
32. *Launching of the underwater pipelines with J-tubes*, Contract Nr. 10/1989 - Beneficiary PETROMAR Constanța.
33. *The mechanical stress in the elastic compensation system that links the underwater pipelines Ø 6, 5 / 8" , Ø 12, 3 / 4" and the buo*, Contract Nr. 38 / 1988 - Beneficiary PETROMAR Constanța.
34. *Simultaneous launching of four underwater pipelines Ø 168 mm*, Contract Nr. 5/1988 Beneficiary PETROMAR Constanța.
35. *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 Constanța
36. *Theoretical and Experimental Research of the Hydrodynamic Forces Acting on a Floating Body.* Research project for the National Research Institute ICEPRONAV Galati, (documentation in Romanian). Contract Nr. 21 / 1987 - Beneficiary ICEPRONAV Galați.

37. *Study concerning the resistance to combined stress of the gas pipeline $\Phi 20''$ installed by free immersion method with floats*, Contract Nr. 43/1987 - Beneficiary PETROMAR Constanța.

38. *Float for the pipeline $\Phi 20''$ - study and project*. Contract Nr. 44/1987 - Beneficiary PETROMAR Constanța.

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

40. *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 Galați.

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

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

42. 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 Mechanical Engineering)

43. 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 calitatii in formarea cercetatorilor pe baza de programe doctorale imbunatatite prin parteneriat, ETS)

44. 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

45. EFICIENT - Proiectul POSDRU/88/1.5/S/761445– Eficientizarea activitatii studentilor din cadrul ciclului de studii doctorale-EFICIENT – 3 PhD students supervised

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

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

D4. Responsible in ERASMUS programs and other bilateral accords

48. 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, și Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galați, România.

49. 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, și Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galați, România.

50. 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, și Prof. Eugen Rusu, Universitatea "Dunărea de Jos" din Galați, România.

51. 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 Galați, Romania.

52. 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 Galați, Romania.

53. 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 Galați, Romania

54. 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 Galați, România.

55. 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 Zanol (PhD thesis finalized in 2014)**, Researches and contributions concerning the dynamics of the coastal currents in the Romanian nearshore of 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 refolosibile in zonele costiere Romanesti ale Marii Negre) POSDRU project EXCELDON..
- 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..

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

May 2016

Eugen Rusu