



## Curriculum vitae Europass



### Informații personale

Nume / Prenume **Eugen Victor Cristian Rusu**  
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Naționalitate(-tăți) Română  
Data nașterii 18.12.1957  
Sex Masculin

### Domeniul ocupațional

#### Experiența profesională

Perioada Începând cu Martie 2001  
Funcția sau postul ocupat Profesor Universitar, Departamentul de Inginerie Mecanica  
<http://www.im.ugal.ro/CadreDidactice.htm>  
Activități și responsabilități principale Activitate didactică, cercetare științifică și îndrumare, post doctoranzi, doctoranzi, masteranzi și studenți la licență.  
Conducător de doctorat – 8 doctori cu tezele finalizate și validați de CNADCU și 5 doctoranzi în stagiul, la alți 5 doctoranzi conducător în cotutela și îndrumător la 2 post-doctoranzi,  
2008-2011 – Responsabil instituțional cu Fonduri Structurale  
Începând cu Septembrie 2012, membru în comisia de Inginerie Mecanică a CNATDCU iar din 2017  
**Președinte al comisiei de Inginerie Mecanică a CNATDCU** <http://www.cnatdca.ro/>  
2013-2015 Președinte Comisia pentru Cercetare Științifică a Senatului UDJG  
**Incepând cu 2016 Director CSUD** (prorector cu activitatea doctorala)  
Evaluator național (CNCSIS, ANCS, UEFISCDI, CNMP, ARACIS, ACPART), peste 100 de proiecte evaluate in ultimii 5 ani, <http://www.experti-cdi.ro/>  
ETS in cadrul proiectelor DOCIS, PERFORM si PhD EXPERT  
<http://www.phd-expert.ugal.ro/contact.htm>  
- Evaluator internațional pentru Fundația de Știință și Tehnologie din Bulgaria – 75 de proiecte evaluate;  
Evaluator Comisia Europeana pentru programele FP7 si Horizont 2020  
Membru in rețeaua naționala a comunicatorilor Regio.  
**In 2015, Doctor Honoris Causa la Universitatea Maritima din Constanta, Romania**  
[http://prev.ugal.ro/stiri/profesorul\\_eugen\\_rusu\\_este\\_doctor\\_honoris\\_causa\\_al\\_universitatii\\_maritime\\_din\\_constanta](http://prev.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_al_universitatii_maritime_din_constanta)  
<http://www2.cmu-edu.eu/home/despre-noi/relatii-internationale/doctor-honoris-causa/>

Numele și adresa angajatorului Universitatea Dunărea de Jos din Galați, <http://www.ugal.ro/>  
Str. Domneasca, Nr. 111, 800008 Galați, România,

Tipul activității sau sectorul de activitate	Universitate publică
Perioada	Începând cu Septembrie 2007 (de asemenea)
Funcția sau postul ocupat	Profesor (colaborator) <a href="http://www.centec.ist.utl.pt/en/centec/personnel.aspx?id=1">http://www.centec.ist.utl.pt/en/centec/personnel.aspx?id=1</a>
Activități și responsabilități principale	Cercetare științifică focalizată în special pe analiza și modelarea datelor de mediu în zonele rutelor de navigație și în apropierea ariilor portuare, corelate cu riscurile naturale și tehnologice care pot apărea în aceste zone. În perioada 2009 - 2011, manager al proiectului (NEARPORT – Dezvoltarea unui sistem de predicție în timp real pentru condițiile de navigație din zonele portuare – proiect de cercetare finanțat de Fundația Portugheză pentru Cercetare și Tehnologie din fonduri UE, 112 000 Euro). <a href="http://www.mar.ist.utl.pt/nearport/en/home.aspx">http://www.mar.ist.utl.pt/nearport/en/home.aspx</a>  Un alt aspect important relaționat cu direcțiile de cercetare mai recente privește și evaluarea resurselor de energie refolosibilă din mediul marin, împreună cu studii privind eficiența a diverse dispozitive de conversie a energiei în diferite zone costiere. De asemenea, sunt realizate studii privind posibilul impact costier al viitoarelor parcuri energetice marine (care pot juca un rol fundamental și în protecția costieră).
Numele și adresa angajatorului	CENTEC – Centrul pentru tehnologii marine și inginerie oceanică, Universitatea Lisabona, Portugalia <a href="http://www.mar.ist.utl.pt/en/index.aspx">http://www.mar.ist.utl.pt/en/index.aspx</a> , Av. Rovisco Pais, 1049-001 Lisbon, Portugal
Tipul activității sau sectorul de activitate	Universitate publică – Centru de cercetare
Perioada	Iunie – Decembrie 2005
Funcția sau postul ocupat	<b>Consultant științific</b> (Expert)
Activități și responsabilități principale	Modelarea proceselor hidrodinamice din zonele costiere și analiza datelor din mediul marin
Numele și adresa angajatorului	<b>Centrul de cercetări subacvatice NATO - NATO Undersea Research Centre</b> (în prezent NATO Centre for Maritime Research and Experimentation) <a href="http://www.nurc.nato.int/">http://www.nurc.nato.int/</a> , Viale S. Bartolomeo, 400 19138 La Spezia, Italia
Tipul activității sau sectorul de activitate	Centru de cercetări al NATO
Perioada	Septembrie 1982 - Martie 2001
Funcția sau postul ocupat	Succesiv pozițiile de asistent, șef de lucrări și conferențiar universitar
Activități și responsabilități principale	Activitate didactică și cercetare științifică
Numele și adresa angajatorului	Universitatea Dunărea de Jos din Galați, <a href="http://www.ugal.ro/">http://www.ugal.ro/</a> Str. Domneasca, Nr. 111, 80008 Galați, România
Tipul activității sau sectorul de activitate	Universitate publică

## Educație și formare

Perioada	Septembrie 1999 - Septembrie 2004
Calificarea / diploma obținută	Specializare post doctorală
Disciplinele principale studiate / competențe profesionale dobândite	Analiza și interpretarea datelor din mediu marin. Predicția evoluției parametrilor din mediul marin utilizând modele numerice. Evaluarea riscurilor tehnologice și naturale din mediile marin și costiere.
Numele și tipul instituției de învățământ / furnizorului de formare	Institutul Hidrografic al Marinei Portugheze (Instituto Hidrográfico da Marinha), Lisabona, Portugalia <a href="http://www.hidrografico.pt">http://www.hidrografico.pt</a> – instituție de cercetare cu rang de Laborator Național.
Perioada	Octombrie 1990 – Mai 1997
Calificarea / diploma obținută	Doctorat



Disciplinele principale studiate / competențe profesionale dobândite Studii privind propagarea și impactul valurilor în mediul costier  
Titlul tezei: *'Mecanica Analitică a Mediilor Continue cu Aplicații la Tehnologia Marină'*

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Dunărea de Jos din Galați în colaborare cu Universitatea Națională Tehnică din Atena (co-îndrumător Prof. G. A. Athanassoulis,  
[http://www.researchgate.net/profile/Gerassimos\\_Athanassoulis](http://www.researchgate.net/profile/Gerassimos_Athanassoulis))

Perioada Octombrie 1977 – Iulie 1982

**Calificarea / diploma obținută** Arhitectură Navală, șef de promoție

Disciplinele principale studiate / competențe profesionale dobândite Inginerie navală și tehnologii marine

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Dunărea de Jos din Galați

### Aptitudini și competențe personale

Limba(i) maternă(e) Română

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (\*)

		Înțelegere		Vorbire		Scriere	
		Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă	
<b>Engleză</b>	C2	Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat
<b>Portugheză</b>	C2	Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat	C2 Utilizator experimentat
<b>Italiană</b>	C1	Utilizator experimentat	C1 Utilizator experimentat	B1 Utilizator independent	B1 Utilizator independent	B1 Utilizator independent	B1 Utilizator independent
<b>Franceză</b>	B1	Utilizator independent	B2 Utilizator independent	A2 Utilizator elementar	A1 Utilizator elementar	A1 Utilizator elementar	A1 Utilizator elementar
<b>Spaniolă</b>	A2	Utilizator elementar	A2 Utilizator elementar	A1 Utilizator elementar	A1 Utilizator elementar	A1 Utilizator elementar	A1 Utilizator elementar

(\*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Competențe și abilități sociale - Lucru în echipă: am lucrat în diverse echipe de cercetare și majoritatea publicațiilor mele majore au fost realizate în echipă. Ca manager de proiect în Portugalia am coordonat de asemenea o echipă.

- Abilitate bună de adaptare la medii multiculturale, câștigată datorită experienței mele de lucru în străinătate. Am desfășurat activitate de cercetare științifică în diverse țări, mai ales Grecia, Portugalia, și Italia și aceasta mi-a dat abilitatea să mă adaptez foarte rapid la mediile multiculturale, și pe de altă parte să înțeleg problemele multiculturality în general.

- Capacități bune de comunicare: în primul rând sunt profesor universitar și trebuie să comunic cu grupe de studenți (serii între 20 și 200 de studenți), deci comunicarea interumană este întrucâtva meseria mea. Pe de altă parte, am de asemenea o mare experiență în participarea la manifestări internaționale și am participat în ultimii 10 ani la mai mult de 50 de astfel de manifestări științifice în: Austria, Belgia, Bulgaria, Canada, Croația, Franța, Grecia, Italia, Moldova, Portugalia, România, Serbia, Spania, Tailanda și Turcia, unde am prezentat comunicări științifice care au fost foarte bine primite de audiență.

- Competențe și aptitudini organizatorice În Universitatea Dunărea de Jos din Galați am fost în perioada 2008-2011 responsabil instituțional cu fondurile structurale și am condus o echipă formată din mai mult de 20 de membri. De asemenea, în perioada 2013-2015 am îndeplinit funcția de Președinte al Comisiei pentru Cercetare Științifică a Senatului UDJG, comisie care număra aproximativ 20 de membri. Ca manager de proiect în Portugalia am condus o echipă de 7 persoane. Coordonez doctoranzi, masteranzi și studenți pentru licență atât în România cât și în Portugalia și Spania.
- Competențe și aptitudini tehnice Sunt profesor Universitar în domeniul ingineriei, deci este de presupus că am acumulat de-a lungul timpului competențe considerabile în diverse arii ale tehnicii relaționate cu aria mea de expertiză. Mai mult, datorită activităților mele științifice curente am acumulat competențe speciale în ceea ce privește tehnicile de măsurare și analiză a datelor din mediul marin. În timpul perioadei cât am lucrat la NATO am avut oportunitatea să intru în contact cu cele mai evolute instrumente și tehnici relaționate cu analiza și măsurarea datelor din mediul marin. În calitate de evaluator FP7 și Horizon 2020 la Comisia Europeană am luat cunoștința și am evaluat unele dintre cele mai avansate proiecte de cercetare științifică din domeniul tehnologiilor pentru extragerea energiei regenerabile în mediul marin.
- Competențe și aptitudini de utilizare a calculatorului - foarte bune competențe în Microsoft Office tools (Word, Excel and PowerPoint);  
- bune competențe în utilizarea softurilor grafice (Paint Shop Pro, Phot Shop, etc)  
- extreme de avansat în Matlab. Am dezvoltat softuri care sunt utilizate în mod curent de NATO așa cum rezultă și din publicația: A Hybrid Framework for Predicting Waves and Longshore Currents, Journal of Marine Systems 69 (2008) 59–73. [doi:10.1016/j.jmarsys.2007.02.009](https://doi.org/10.1016/j.jmarsys.2007.02.009)
- Alte competențe și aptitudini - Am o capacitate foarte mare de concentrare și de a sesiza aspectele esențiale. Aceasta este reflectată de asemenea și din dinamica publicațiilor mele din ultimii ani  
Revizor recunoscut la mai multe jurnale internaționale: <http://www.reviewerpage.com/E--Rusu>  
- In 2015 am primit Diploma 'Certificate of Outstanding Contribution in Reviewing', Renewable Energy, ELSEVIER; iar in 2016 Diploma 'Certificate of 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  
- Am fost membru în diverse comitete științifice (ca de exemplu IMAM 2005, 2007, 2009 și 2011)  
<http://www.mar.ist.utl.pt/imam2005/committee.aspx>,  
<http://www.imamhomepage.org/imam2007/structure.aspx>  
<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>  
ICMSAV 2014  
EMR 2015 <http://www.emr2015.org/committees.html>  
ICACER 2016, <http://www.icacer.com/com.html>  
Program chair – 3rd International Conference on Advances on Clean Energy Research – ICACER2018, <http://icacer.com/com.html>  
Program chair – 2nd International Conference on Energy Economics and Energy Policy , ICEEEP2018, <http://www.iceeep.com/com.html>  
Membru în Panelul Internațional de evaluare al Centrului de Cercetare MAREI (Center for Marine and Renewable Energy <http://www.marei.ie/>), Irlanda (2017), desemnat de 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](http://www.im.ugal.ro/DAMWAVE/index_files/Flyer_Damwave_RO.jpg)  
și organizații profesionale  
(OCEANEXPERT <http://oceanexpert.org> ; MARTEC [www.innovamar.org](http://www.innovamar.org),  
[http://www.iode.org/index.php?option=com\\_oe&task=viewMemberRecord&memberID=13477](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](http://ioc-unesco.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477)



Permis(e) de conducere Categoria B

- Informații suplimentare** - **FP7 - Expert Evaluator Internațional**, pentru apelurile **-SMARTCITIES-2013 FP7-ENERGY-2013-1**  
[http://ec.europa.eu/research/participants/data/ref/fp7/list\\_fp7\\_experts/cooperation/energy/energy\\_2013\\_en.xlsx](http://ec.europa.eu/research/participants/data/ref/fp7/list_fp7_experts/cooperation/energy/energy_2013_en.xlsx)  
**Expert evaluator internațional pentru programul H2020 (Energy)**  
- [http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\\_docs.html#h2020-expertslists-excellent-erc](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-expertslists-excellent-erc)  
- Responsabil program internațional de colaborare în domeniul pregătirii doctorale între Universitatea din Galați și Universitatea Tehnică din Lisabona (începând cu anul 2006)  
- Revizor internațional (Journal of Marine Systems, Renewable Energy, Energy Conversion and Management, Journal of Environmental Radioactivity, International Journal of Green Energy, Environmental Engineering and Management Journal, Journal of Coastal Research, Ocean Engineering, Conferințe IMAM și OMAE), aprox. 50 de lucrări științifice recenzate în ultimii 5 ani;  
- Membru în colectivul editorial la:  
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/oceam2011/395.html>  
Journal of Geological Resource and Engineering (ISSN 2328-2193)  
[http://www.davidpublishing.org/journals\\_info.asp?id=1553#](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/IJAAEEE/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,  
- <http://journal.frontiersin.org/journal/marine-science/section/ocean-engineering-technology-and-solutions-for-the-blue-economy>

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-IAAA&hl=ro>

Researchgate: [https://www.researchgate.net/profile/Eugen\\_Rusu/?ev=hdr\\_xprf](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>

**Articole din presă sau alte mențiuni** (în limbile Română sau Portugheză)

<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://prev.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_al_universitatii_maritime_din_constanta)

<http://www.ccsгалati.ro/index.php?section=despre>

<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>



# ANEXĂ

## LISTA PUBLICAȚIILOR RELEVANTE ȘI A PARTICIPĂRILOR LA PROIECTE DE CERCETARE

### A – PUBLICAȚII ÎN JURNALE INTERNAȚIONALE (SELECȚIE)

1. 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>
2. Rusu, E., Onea, F., 2017, [Hybrid Solutions for Energy Extraction in Coastal Environment](#), Energy Procedia, DOI: 10.1016/j.egypro.2017.07.
3. 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>
4. 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>
5. 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>
6. 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>
7. 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>
8. 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=XVTtflWsevdeozD&keytype=finite>
9. Makris, C., Galiatsatou, P., Tolika, K., ..... & Rusu, E., 2016, Climate change effects on the marine characteristics of the Aegean and Ionian Seas, *Ocean Dynamics*, in press, DOI 10.1007/s10236-016-1008-1, <http://rdcu.be/IL9L>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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](#), 7(6) 4002-4018; <http://www.mdpi.com/1996-1073/7/6/4002>
16. 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>
17. 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>
18. 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>



19. 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>
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## C – CĂRȚI ȘI CAPITOLE DE CĂRȚI (SELECȚIE)

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158. Rusu, E., 1998: *Mecanica Clasica*, vol. II, *Dinamica si mecanica Analitica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 182p, (in limba Romana).
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## **D – PARTICIPĂRI LA PROIECTE DE CERCETARE, PROIECTE POSDRU ȘI RESPONSABIL DE ACORDURI INTERAȚIONALE**

### **D1 Responsabil de proiect**

#### **D1.1 Responsabil la proiecte internaționale sau desfășurate în străinătate**

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), Grant individual de cercetare NATO (15 000 €).

#### **D1.2 Responsabil la proiecte naționale**

5. REMARC (2017-2019) - Extragerea energiei refolosibile in mediul marin și impactul ei costier, PN-III-P4-ID-PCE-2016-0017, <http://www.im.ugal.ro/REMARC/index.php>
6. Studii privind influența valurilor asupra operațiunilor offshore, grant anual CNCSIS (nr. 34234/1999, tema 18), predat 1999.
7. Tehnologia de pozare a cablului de energie submarin cu izolație și manta din cauciuc, rezistent la propagarea flăcării - Contract de cercetare Nr. 11/1989, beneficiar I.C.P.E. București, predat noiembrie 1989.

### **D2 Participare ca membru în echipă, expert sau post doctorand**

#### **D2.1 Proiecte internaționale sau desfășurate în străinătate**

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 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](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 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 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 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, 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](http://www.nurc.nato.int/publications/reports_2006.htm)
16. HYBRID SURF MODELING (2005), NURC-FR-2006-016, 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](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 competences for the implementation of oceanographic models with data assimilation, <http://www.hidrografico.pt/mocassim.php>, team member as post doc fellow at the Hydrographical Institute of the Portuguese Navy.
19. Proiectul de cercetare – DERIVA LITORAL(2003-2005),: Estimation of the Nearshore Currents in the Iberian Nearshore, team member as post doc fellow at the Hydrographical 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. Proiectul de cercetare - PAMMELA (2000-2003), *Prediction of the Nearshore Wave Conditions with Spectral Models*, team member as post doc fellow at the Hydrographical 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. Incidentul generat de scufundarea petrolierului – **PRESTIGE** (Noiembrie 2002- Februarie 2003) Membru în comitetul de criză, responsabil cu estimarea și previziunea acțiunii valurilor prin utilizarea modelelor spectrale.
22. Exercițiul naval NATO - **UNIFIED OYISSEY 2002** (Ianuarie- Februarie 2002), Membru în echipa care a furnizat suportul logistic prin realizarea de previziuni privind evoluția parametrilor oceanografici pe timpul desfășurării exercițiului
23. Proiectul: *Development of New Techniques for Prediction of Wave Conditions in the Coastal Environment.* (1998-1999) **Programul bilateral interguvernamental de colaborare tehnico-științifică dintre România și Grecia**, subprogramul A6-1, 'Mediu și tehnologii de mediu'. Coordonator de fază - *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.*
24. Proiectul de cercetare EUROWAVES, Programul European – **FP4** (1997), membru în echipa de cercetare de la Universitatea Nationala Tehnica din Atena, Grecia (NTUA), coordonată de profesorul G.A. Athanassoulis de la Departamentul de Arhitectura Navala si Inginerie Marina.

## D2.2 Proiecte naționale

25. **ACCWA (PN-III-P4-ID-PCE-2016-0028)** - Evaluarea efectelor produse de schimbarile climatice asupra condițiilor de val din Marea Neagra (2017-2019), <http://www.im.ugal.ro/ACCWA/index.php>
26. DAMWAVE (2013-2016), Implementarea de metode de asimilare de date pentru a îmbunătăți predicția valurilor în zonele costiere Românești (Implementation of data assimilation methods to improve the wave predictions in the Romanian nearshore), CNCS – UEFISCDI, proiect number PN-II-ID-PCE-2012-4-0089, <http://www.im.ugal.ro/DAMWAVE/index.htm>
27. COSMOMAR (2014-2016) - Dezvoltarea unui centru de competenta pentru tehnologii spatiale, dedicat dezvoltarii sustenabile a regiunilor marine si costiere romanesti, programul STAR, participare ca membru in echipa la Institutul Grigore Antipa din Constanta.  
<http://www.cosmomar.ro/>
28. *Dinamica sistemelor pentru transferul hidrocarburilor din exploatarea marine*, (partea a-IIIa) - Raport final -Grant nr. 7007/1997, poz. 30/277, Octombrie 1997, pag. 1-44.
29. *Stabilitatea mișcării obiectelor marine tractate cu și fără autogovernare.* Raport Grant nr. 5007/1996, poz. 1173, Octombrie 1996, pag. 1-21.
30. *Dinamica sistemelor pentru transferul hidrocarburilor din exploatarea marine* (partea a-IIa) - Raport final -Grant nr. 5007/1996, poz. 1174, Octombrie 1996, pag. 1-27.
31. *Dinamica sistemelor pentru transferul hidrocarburilor din exploatarea marine* (partea a-Ia) - Raport final -Grant nr. 4007/1995, poz. B10, Octombrie 1995, pag. 1-51.
32. *Studiul de soluție: Instalarea conductei submarine de gaze Ø14" prin metoda imersiunii libere.* Contract Nr. 5226/30.06.1993 - Beneficiar PETROSTAR Ploiești.
33. *Studiul și elaborarea documentației privind caracteristicile hidrodinamice ale unui container imers tractat,* Contract Nr. 25/2.09.1991 - Beneficiar MAPn – UM 02190 Constanța.
34. *Tragerea prin tuburi de ghidare tip J a conductelor submarine.* Contract Nr. 10/1989 - Beneficiar PETROMAR Constanța.

35. Stabilirea eforturilor mecanice ce apar in sistemul de compensare elastic (furtune elastice) care face legătura între capetele conductelor submarine  $\Phi$  6, 5/8'',  $\Phi$  12, 3/4'' și geamandură, Contract Nr. 38 / 1988 - Beneficiar PETROMAR Constanța.
36. Analiza posibilității de lansare simultană a patru conducte submarine  $\Phi$  168 mm, Contract Nr. 5/1988 Beneficiar PETROMAR Constanța.
37. Studiu de soluție: Calculul de rezistență la eforturi combinate a conductei de gaze  $\Phi$  16 '' instalată prin metoda scufundării libere, Contract Nr. 5/1988 - Beneficiar PETROMAR Constanța
38. Cercetări teoretice și experimentale pe modele în vederea stabilirii metodelor de determinare a forțelor hidrodinamice și a comportării structurilor marine ancorate, Contract Nr. 21 / 1987 - Beneficiar ICEPRONAV Galați.
39. Studiu de soluție: Calculul de rezistență la eforturi combinate a conductei submarine de gaze  $\Phi$  20 '' instalată prin metoda scufundării libere, Contract Nr. 43/1987 - Beneficiar PETROMAR Constanța.
40. Flotor pentru conducta de gaze  $\Phi$  20'' - studiu și proiect. Contract Nr. 44/1987 - Beneficiar PETROMAR Constanța.
41. Calculul de rezistență a conductelor submarine instalate prin metoda scufundării libere, Contract Nr. 41/1985 - Beneficiar PETROMAR Constanța.
42. Determinarea experimentală , prin măsurători tensometrice, a eforturilor brațului prototip care echipează macaralele de bord, la probare statică și dinamică, Contract Nr. 62/1985 - Beneficiar IMN Galați.
43. Analiza cazurilor de rupere ale unei barje de 2000 tdw, Contract Nr. 28/1980 - beneficiar ICEPRONAV Galați.

### D3. Participari la Proiecte POSDRU

44. DOCIS – Proiectul POSDRU-/2/1.2/S/2 – Dezvoltarea unui sistem operational al calificarilor din invatamantul superior din Romania - ETS (Responsabil Domeniu Inginerie Mecanică)
45. PhD – EXPERT (POSDRU/21/1.5/G/19524) Cresterea calitatii in formarea cercetătorilor pe baza de programe doctorale imbunătățite prin parteneriat, ETS
46. SIMBAD - Proiectul POSDRU – 6/1.5/S/15 - Sistem de Management al Burselor Acordate Doctoranzilor-SIMBAD – 1 doctorand îndrumat
47. EFICIENT - Proiectul POSDRU/88/1.5/S761445– Eficientizarea activitatii studentilor din cadrul ciclului de studii doctorale-EFICIENT – 3 doctoranzi
48. EXCELDOC (POSDRU/159/1.5/S/132397) - 1 post doctorand și 1 doctorand îndrumați
49. PERFORM (POSDRU/159/1.5/S/138963) – ETS, 1 post doctorand îndrumat

### D4. Responsabil Programe ERASMUS și acorduri bilaterale

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



56. Responsabil program internațional de colaborare în domeniul pregătirii doctorale între Universitatea din Galați și Universitatea Tehnică din Lisabona (începând cu anul 2006), 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.

57. Participare la un Program TEMPUS de 3 luni la NTUA (National Technical University of Athens) Greece, 1997.

## **E. ÎNDRUMARE DE DOCTORANZI SI POSTDOCTORANZI**

### **E1. Teze de doctorat indrumate și finalizate**

1. **Dorin Butunoiu (teza finalizata în 2012)** Implementarea unui sistem de predicție a valurilor pentru creșterea siguranței operațiunilor portuare in zona litoralului românesc.

2. **Florin Onea (teza finalizata în 2013)** Studii Privind Oportunitatea Extragerii Energiei Refolosibile în Mediul Marin cu Aplicații la Bazinul Mării Negre.

3. **Angela Stela Ivan (teza finalizata în 2013)** Studiul proceselor costiere de la gurile Dunării și evaluarea impactului acestora asupra activităților umane.

4. **Sorin Diaconu (teza finalizata în 2013)**, Studii privind influența fermelor energetice marine și a structurilor offshore asupra hidrodinamicii costiere.

5. **Robert Toderrascu (teza finalizata în 2014)**, Studii privind implementarea unui sistem pentru evaluarea propagării agentilor poluanti in mediul marin.

6. **Carmen Gasparotti (teza finalizata în 2014)**, Cercetari si contributii privind cresterea sigurentei navigatiei in Marea Neagra.

7. **Andrei Tanase Zanopol (teza finalizata in 2015)**. Cercetari si contributii privind dinamica curentilor costier in zona litoralului Romanesc al Mării Negre.

8. **Alina Beatrice Răileanu (teză finalizată în 2016)**. Implementarea de metode de asimilare de date pentru îmbunătățirea predicției valurilor cu modele spectrale în bazinul Mării Negre.

### **E2. Post doctoranzi indrumati**

1. **Florin Onea (Mai 2014- Noiembrie 2015)**. Cercetari privind resursele de energie refolosibila in zonele costiere Romanesti ale Marii Negre (Proiectul POSDRU EXCELDOC).

2. **Dorin Butunoiu (Mai 2014- Noiembrie 2015)**. Studii privind cresterea sigurantei navigatiei si a operatiunilor portuare in Marea Neagra. (Proiectul POSDRU PERFORM).

Obs. La acestea se adaugă peste 50 de dizertații de licență și masterat îndrumate.

**Februarie 2018**

**Eugen Rusu**

