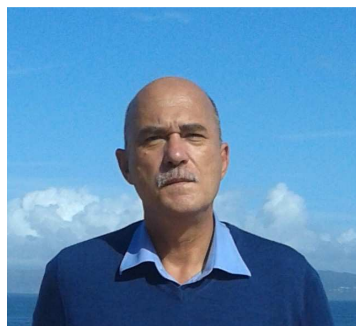




## Curriculum vitae Europass



### Informații personale

Nume / Prenume **Eugen Victor Cristian Rusu**  
Adresă(e) Str. Traian, Nr. 9., Bl. W3, Ap. 11, 6200 Galați, România  
Telefon(oane) Personal: +402 36 410434 Mobil: +40 740205534  
Fax(uri) +402 36 461353  
E-mail(uri) [erusu@ugal.ro](mailto:erusu@ugal.ro), [eugen.rusu@mar.ist.utl.pt](mailto:eugen.rusu@mar.ist.utl.pt) [evcrusu@yahoo.com](mailto:evcrusu@yahoo.com)  
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 Mecanică  
<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.cnatdcu.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 în ultimii 5 ani, <http://www.experti-cdi.ro/>  
ETS în cadrul proiectelor DOCIS, PERFORM și 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 Europeană pentru programele FP7 și Horizon 2020  
Membru în rețeaua națională a comunicatorilor Regio.  
**In 2015, Doctor Honoris Causa la Universitatea Maritimă din Constanța, România**  
[http://prev.ugal.ro/stiri/profesorul\\_eugen\\_rusu\\_este\\_doctor\\_honoris\\_causa\\_la\\_universitatii\\_maritime\\_din\\_constanta](http://prev.ugal.ro/stiri/profesorul_eugen_rusu_este_doctor_honoris_causa_la_universitatii_maritime_din_constanta)  
<http://www2.cmu-edu.eu/home/despre-noi/relatii-internationale/doctor-honoris-causa/>  
**Incepând cu 2018, Membru corespondent al Academiei Române**, cel mai important forum științific și cultural din România [http://www.acad.ro/sectii/sectia08\\_tehnica/teh\\_membri.htm](http://www.acad.ro/sectii/sectia08_tehnica/teh_membri.htm)

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, 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 marine 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: <i>'Mecanica Analitică a Mediilor Continue cu Aplicații la Tehnologia Marină'</i>
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, <a href="http://www.researchgate.net/profile/Gerassimos_Athanassoulis">http://www.researchgate.net/profile/Gerassimos_Athanassoulis</a> )
Perioada	Octombrie 1977 – Iulie 1982
<b>Calificarea / diploma obținută</b>	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
<b>Portugheză</b>	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
<b>Franceză</b>	B1	Utilizator independent	B2 Utilizator independent	A2 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

(\*) *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 multiculturale 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 evoluate instrumente și tehnici relaționate cu analiza și măsurarea datelor din mediul marin. În calitate de evaluator FP7 și Horizont 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

Diploma **Top 1% World Reviewer in the field of Engineering** (2018),

<https://publons.com/researcher/1170248/eugen-rusu>

Diploma **Certificate Energies 10<sup>th</sup> Anniversary Best Paper**, 2018.

**Program chair** ICACER Conferences (International Conference of advances in Energy Research) , years 2017-2019 <http://icacer.com/com.html>

**Program chair** ICEEEP Conferences – **International Conference on Energy Economics and Energy Policy** , years 2018-2019, <http://www.iceeep.com/com.html>

**Program committee** International Joint Conference on Clean Energy and Smart Grid (CCESG 2019) will be held in **Phuket**, <http://www.ccesg.org/>

- Am fost membru în diverse comitete științifice (ca de exemplu IMAM 2005, 2007, 2009 și 2011)

<http://www.mar.ist.utl.pt/imam2005/comitee.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>

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 International, 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.htm#h2020-expertslists-excellent-erc](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.htm#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;

**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 Issue "Offshore Renewable Energy: Ocean Waves, Tides and Offshore Wind" [www.mdpi.com/journal/energies/special\\_issues/offshore](http://www.mdpi.com/journal/energies/special_issues/offshore)

- **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>

- **Membru in colectivul editorial la:**

International Journal Ocean Systems Engineering

<http://www.techno-press.org/?journal=ose&subpage=7>

International Journal of Advanced Alternative Energy, Environment and Ecology

<http://scientific.cloud-journals.com/index.php/IJAAEEE/about/editorialTeam>

Satellite Oceanography and Meteorology

<http://ojs.whioce.com/index.php/som/about/editorialTeam>

- Advanced Shipping and Ocean Engineering (ASOE)

<http://www.academicpub.org/asoe/editorialBoard.aspx>

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>

**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-IAAAJ&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 INTERNAZIONALE (SELECȚIE)

1. 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>
2. Rusu, E., 2018, Numerical Modeling of the Wave Energy Propagation in the Iberian Nearshore, *Energies* 11(4), 980, <https://doi.org/10.3390/en11040980>
3. 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>
4. 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>
5. 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>
6. 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>
7. Rusu, E., Onea, F., 2017, [Hybrid Solutions for Energy Extraction in Coastal Environment](#), *Energy Procedia*, DOI: 10.1016/j.egypro.2017.07.
8. 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>
9. 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>
10. 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>
11. 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>
12. 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>
12. 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=XVTfIWsevedeoZ&keytype=finite>
13. Makris, C., Galiatsou, 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>
14. 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>
15. 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>

16. 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>
17. 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>
18. 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>
19. 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>
20. 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>
21. 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>
22. 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>
23. 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>
24. 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>
25. 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>
26. 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>
27. 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>
28. Zanopol, 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>
29. 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/downfile/volume/kcore/E1GPBT/2014/v4n1/E1GPBT\\_2014\\_v4\\_n1\\_29.pdf](http://www.koreascience.or.kr/search/articlepdf_ocean.jsp?url=http://ocean.kisti.re.kr/downfile/volume/kcore/E1GPBT/2014/v4n1/E1GPBT_2014_v4_n1_29.pdf)
30. 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>
31. 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>
32. 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>
33. 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/>
34. 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>
35. 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>
36. 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.jcronline.org/doi/abs/10.2112/JCOASTRES-D-11-00209.1>
37. 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:dug:journl:y:2013:i:2:p:79-92>
38. 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>
39. 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>



40. 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>
41. 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>
42. 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>
43. 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>
44. 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>
45. 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>
46. 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>
47. 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/\(ASCE\)WWW.1943-5460.0000023](http://dx.doi.org/10.1061/(ASCE)WWW.1943-5460.0000023)
48. 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>
49. 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>
50. 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>
51. 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](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no1/33_Rusu.pdf)
52. 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>
53. 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).
54. 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 4<sup>th</sup> 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](http://www.noc.soton.ac.uk/gg/EUROSTRATAFORM/resources/portug_ref.html))
55. 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 4<sup>th</sup> Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July. <http://geoma.net/ediciones/thalassas1.pdf>
56. 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, Nº 76 Mar/Abr, pp 1-5 (in portuguese). <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar76.pdf>
57. 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](http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf) (included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>)
58. 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](http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf)
59. Rusu, E., Soares, C.V., 2001: Pre-processing and post-processing of model wave data in the nearshore. *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 15, pp. 65-74. [http://websig.hidrografico.pt/www/content/documentacao/anais/Anais\\_15.pdf](http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_15.pdf)

## B - PUBLICAȚII ÎN VOLUMELE UNOR CONFERINȚE INTERNAȚIONALE RELEVANTE (SELECȚIE)

59. Rusu, E., Onea, F., 2018, The synergy between wave and wind energy along the Latin American and the European continental coasts, Conference: 1st Latin American SDEWES conference, Rio de Janeiro, Brazil.
60. Rusu, E., 2017, "The synergy between wind and wave power along the coasts of the Black Sea", the 17th International Congress of the International Maritime Association of the Mediterranean on "Maritime Transportation and Harvesting of Sea Resources", IMAM 2017, Lisbon, Portugal, 9 - 11 October 2017, <http://www.imamhomepage.org/imam2017/>
61. Rusu E., 2016, Analysis of the Effect of a Marine Energy Farm to Protect a Biosphere Reserve, ICACER 2016, International Conference on Advances on Clean Energy Research Bangkok, Thailand Apr.16-18, 2016, <http://www.icacer.com/>
62. A Raileanu, F Onea, E Rusu, 2016, Spatial and seasonal variations of the environmental conditions along the Black Sea shipping routes, International Multidisciplinary Scientific GeoConferences SGEM, June 2016, Albena, Bulgaria.
63. A Răileanu, L Rusu, E Rusu, 2016, Data assimilation methods to improve the wave predictions in the Romanian coastal environment, International Multidisciplinary Scientific GeoConferences SGEM, June 2016, Albena, Bulgaria.
64. D Silva, . E Rusu, C Guedes Soares, 2016. Evaluation of the expected power output some of the state of the art wave energy converters in the north of the Portuguese nearshore, 2<sup>nd</sup> International Conference on Renewable Energies Offshore, RENEW 2016.
65. Rusu E., Butunoiu, D., 2015, Prediction of the extreme storms in the Black Sea with numerical wave models, In: *Proc. of 16th International Congress of the International Maritime Association of the Mediterranean*, IMAM 2015 - Towards Green Marine Technology and Transport, 21-24 September, Croatia, <http://www.imamhomepage.org/imam2015/>
66. Rusu E., Butunoiu, D., 2015, Wave modelling south of the Danube Delta in the Black Sea, Poster presented at *European Geosciences Union General Assembly 2015 (EGU2015)*, *Geophysical Research Abstracts*, Vol. 17, EGU2015-4816, 12-17 April, Vienna, Austria <http://meetingorganizer.copernicus.org/EGU2015/posters/17342>
67. Butunoiu, D., Rusu, E., 2015. A Data Assimilation Scheme to Improve the Wave Predictions in the Black Sea, In: *Proc. of OCEAN'15 MTS/IEEE Conference - Discovering Sustainable Ocean Energy for a New World*, 18-21 May, Genova, Italy, <http://www.oceans15mtsieee.genova.org/>
68. Răileanu, A., Onea, F., Rusu, E., 2015, Assessment of the wind energy potential in the coastal environment of two enclosed seas, In: *Proc. of OCEAN'15 MTS/IEEE Conference - Discovering Sustainable Ocean Energy for a New World*, 18-21 May, Genova, Italy, <http://www.oceans15mtsieee.genova.org/>
69. Răileanu, A., Onea, F., Rusu, E., 2015, Evaluation of the offshore wind resources in the European seas based on satellite measurements, *Proc. of 15th International Multidisciplinary Scientific GeoConference (SGEM2015)*, 16-25 June, Albena, Bulgaria, Vol. 4, 227-234. <http://sgem.org/sgemlib/spip.php?article6134>
70. Răileanu, A., Rusu, L., Rusu, E., 2015. Wave modelling with data assimilation in the Romanian nearshore. In: *Proc. of 16th International Congress of the International Maritime Association of the Mediterranean*, IMAM 2015 - Towards Green Marine Technology and Transport, 21-24 September, Croatia, <http://www.imamhomepage.org/imam2015/>
71. Rusu, L., Răileanu, A., Rusu, E., 2015. An assimilation scheme based on remotely sensed data to improve the results of the numerical wave models in the Black Sea, *International Conference Environmental Issues in terms of its Protection and Ecology*, 6-7 May 2015, Galați, Romania, pp 11-12, ISBN 978-606-696-035-9.
72. Onea, F., Răileanu, A., Rusu, E., 2015. Evaluation of the general wind conditions in the Black and the Caspian seas, *International Conference Environmental Issues in terms of its Protection and Ecology*, 6-7 May 2015, Galați, Romania, pp 13-14, ISBN 978-606-696-035-9.
73. Rusu, E., 2014. Assessment of the Wave Energy Conversion Patterns in Various Coastal Environments, 1<sup>st</sup> International e-Conference on Energies 2014, c015; <http://www.sciforum.net/conference/ece-1/ece-c> doi:10.3390/ece-1-c015
74. Rusu, E., Zanol, A., 2014. Modelling the coastal processes at the mouths of the Danube River in the Black Sea, Poster at The general EGU Assembly, Viena 28.04-02.05, 2014, EGU2014-2154, <http://meetingorganizer.copernicus.org/EGU2014/posters/14437>
75. C., Gasparotti, L. Domisoru, E., Rusu, 2014, Scenarios for the navigation routes in the black sea considering the seakeeping safety criteria, SGEM 2014 : 14th International Multidisciplinary Scientific GeoConference, 17-26 June, Albena, Bulgaria, <http://www.sgem.org/>
76. Zanol, A., Onea, F., Rusu, E., 2014. Longshore currents evaluation along the Romanian Black Sea coast, SGEM 2014 : 14th International Multidisciplinary Scientific GeoConference, 17-26 June, Albena, Bulgaria, <http://www.sgem.org/>
77. Zanol, A., Onea, F., Rusu, E., 2014. Wave farm influences on the mangalia nearshore wave pattern, SGEM 2014 : 14th International Multidisciplinary Scientific GeoConference, 17-26 June, Albena, Bulgaria, <http://www.sgem.org/>
78. Rusu, L., Butunoiu, D., Rusu, E., 2014. Analysis of the extreme storm events in the Black Sea considering the results of a five year wave hindcast, International Conference AQUALIRES 2014 – New tools for sustainable management of aquatic living resources, Bucharest, Romania, 17-18 January 2014, <http://aqualires.incdpm.ro/images/AGENDA.pdf>, included in the calendar of the European Environment Agency, <http://www.eea.europa.eu/events/new-tools-for-sustainable-management>

79. Zanopol, A., Onea, F., Rusu, E., 2014. Evaluation of the coastal influence of a generic wave farm operating in the Romanian nearshore, International Conference AQUALIRES 2014 – New tools for sustainable management of aquatic living resources, Bucharest, Romania, 17-18 January 2014, <http://aqualires.incdpm.ro/images/AGENDA.pdf>, included in the calendar of the European Environment Agency, <http://www.eea.europa.eu/events/new-tools-for-sustainable-management>
80. Diaconu, S, Rusu, E., 2013. Evaluation of various WEC devices in the Romanian near shore, WSEAS International Conference on Energy and Environment Technologies and Equipment (EEETE '13). Brasov, Romania, June 1-3, 2013, pp. 92-102, <http://www.wseas.us/e-library/conferences/2013/Brasov/ABIETE/ABIETE-14.pdf>
81. Diaconu, S, Rusu, E., 2013. The influence of a WEC array on the Romanian coastal environment, WSEAS International Conference on Energy and Environment Technologies and Equipment (EEETE '13). Brasov, Romania, June 1-3, 2013, pp. 99-116, <http://www.wseas.us/e-library/conferences/2013/Brasov/STAED/STAED-16.pdf>
82. Carmen Gasparotti, Eugen Rusu, Stefan Dragomir, 2013, The impact of anthropogenic activities on the water quality in the Danube river basin, 13<sup>th</sup> International Multidisciplinary Scientific GeoConference SGEM 2013, Albena, <http://www.sgem.org/>
83. Rusu, E., Onea, F., 2012: Wave Energy Evaluations in Enclosed Seas. 8<sup>th</sup> WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '12), Faro, Portugal. <http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-01.pdf>
84. Ivan, A., Rusu, E., 2012: Assessment of the navigation conditions in the coastal sector at the entrance of the Danube Delta, 12<sup>th</sup> International Multidisciplinary Scientific GeoConference (SGEM2012), Albena, Bulgaria. <http://dx.doi.org/10.5593/sgem2012/s14.v3001> <http://sgem.org/sgemlib/spip.php?article2204>
85. Onea, F., Rusu, E., 2012: Evaluation of the Wind Energy Resources in the Black Sea Area, 8<sup>th</sup> WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development (EEESD '12), Faro, Portugal. <http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-02.pdf>
86. Toderascu, R., Rusu, E., 2012. Implementation of a global circulation modeling system for the Black Sea basin. *Proceedings of the 12<sup>th</sup> International Multidisciplinary Scientific GeoConference*, Albena, Bulgaria (SGEM2012). <http://sgem.org/sgemlib/spip.php?article2179&lang=en>
87. Rusu, E. and Guedes Soares, C., 2011: Assessment of the wave energy in two enclosed seas, proceedings of MARTECH 2011 - 1<sup>st</sup> International Conference on Maritime Technology and Engineering, Lisbon, 10-12 May 2011. <http://www.mar.ist.utl.pt/martech2011/structure.aspx>
88. Rusu, E., Gonçalves, M and Guedes Soares, C., 2011: Study of the wave transformation in the central part of the Portuguese nearshore with high resolution models, proceedings of MARTECH 2011 - 1<sup>st</sup> International Conference on Maritime Technology and Engineering, Lisbon, 10-12 May 2011. <http://www.mar.ist.utl.pt/martech2011/structure.aspx>
89. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2011: Evaluation of the wave models SWAN and STWAVE in shallow water using nested schemes, proceedings of MARTECH 2011 - 1<sup>st</sup> International Conference on Maritime Technology and Engineering, Lisbon, 10-12 May 2011. <http://www.mar.ist.utl.pt/martech2011/structure.aspx>
90. Rusu, E. and Butunoiu, D., 2011: Parallel evaluation of the wave energy in Black Sea. *International Environmental Conference - Sustainable Development in Coastal Areas*, 29 June – 1 July, Ioannina, Greece. <http://www.benaweb.gr/index-2.html>
91. Rusu, E., Gonçalves, M. and Guedes Soares, C., 2011: Avaliação da transformação de ondas em ambientes costeiros e áreas portuárias com os modelos SWAN e FUNWAVE. *Proceedings of 7<sup>as</sup> Jornadas Portuguesas de Engenharia Costeira e Portuária*, Porto, Portugal, 6-7 October, Ed. CD, 12p. [http://www.lnec.pt/organizacao/dha/npe/pdfs/BoletimA4\\_V2.pdf](http://www.lnec.pt/organizacao/dha/npe/pdfs/BoletimA4_V2.pdf)
92. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2010: Comparações entre os modelos SWAN e STWAVE na área costeira do Porto de Leixões, proceedings of 1<sup>as</sup> Jornadas de Engenharia Hidrografica, Lisbon, 21-22 June 2010, 277-280. <http://www.marinha.pt/PT/noticiaseagenda/noticias/Documents/BoletimlasJornadasEngenharia.pdf>
93. Toderascu, R. and Rusu, E., 2010: Development of a joint system based on numerical models to provide environmental support in the Black Sea, *Global Change Research II: Environmental Crisis, Energy Issues and Global Regulation Policies*, 11-16 June 2010, IGESA, Porquerolles Island, France. <http://www.esf.org/index.php?id=6339>
94. Toderascu, R. and Rusu, E., 2010: Implementation of a joint modeling system to provide support in the prediction of the extreme environmental events in the Black Sea, *ESF-COST High-Level Research Conference, Extreme Environmental Events*, 13-17 December 2010, Selwyn College, Cambridge, United Kingdom. <http://www.esf.org/index.php?id=7048>
95. Rusu, E. and Onea, F., 2010: Assessment of the spatial distribution of the wave energy in the Black Sea with numerical models, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 388-393, <http://nts.tea.bg/>
96. Onea, F., Rusu, E. and Strat, I., 2010: Evaluation of the wave energy potential in the Black Sea using remotely data, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 375-380, <http://nts.tea.bg/>
97. Rusu, E. and Ivan, A., 2010: Evaluation of the extreme waves at the entrance of the Danube Delta, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 331-337, <http://nts.tea.bg/>
98. Ivan, A., Gasparotti, C. and Rusu, E., 2010: Dynamics of the environmental matrix at the entrance of the Danube Delta, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 338-343, <http://nts.tea.bg/>

99. Rusu, E. and Butunoiu, D. 2009: Wave modeling in the proximity of Constanta harbour, Proceedings of the 13<sup>th</sup> International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources - IMAM2009, Istanbul, Turkey, Vol. 2, 633-640. [http://www.imam2009.itu.edu.tr/files/IMAM\\_2009.pdf](http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf)
100. Ivan, A. and Rusu, E., 2009: Wave-Current Interactions at the Entrance of the Danube Delta, Proceedings of the 13<sup>th</sup> International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources - IMAM2009, Istanbul, Turkey, Vol. 3, 875-882. [http://www.imam2009.itu.edu.tr/files/IMAM\\_2009.pdf](http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf)
101. Macuta, S. and Rusu, E., 2009: Experimental researches regarding the evolution of some parameters of the superficial layer in low cycle fatigue processes, Proceedings of the 13<sup>th</sup> International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources - IMAM2009, Istanbul, Turkey, Vol. 1, Pp 125-128. [http://www.imam2009.itu.edu.tr/files/IMAM\\_2009.pdf](http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf)
102. Bento, A. R., Rusu E. and Guedes Soares, C., 2009: Wave modelling at the entrance of Leixões harbour, 6<sup>o</sup> Simposio sobre el Margen Ibérico Atlántico MIA09, Oviedo, Spain, 1-5 December 2009. <http://www.unioviedo.es/mia09/descargas/1-circular-MIA-port.pdf>
103. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2009: Comparações entre os modelos SWAN e STWAVE na area costeira de Obidos, 6<sup>as</sup> Jornadas Portuguesas de Engenharia Costeira e Portuária, Funchal, 8-9 October 2009.
104. Silva, D., Rusu E., and Guedes Soares, C., 2009. Modelação das condições marítimas na zona costeira da Figueira da Foz, com o modelo espectral SWAN, 6<sup>as</sup> Jornadas Portuguesas de Engenharia Costeira e Portuária, Funchal, 8-9 October 2009.
105. Rusu, E. and Guedes Soares C., 2008: Wave Energy Assessments in the Coastal Environment of Portugal Continental, the 27<sup>th</sup> International Conference on Offshore Mechanics and Arctic Engineering - OMAE2008, June 15-20, 2008, Estoril, Portugal, Vol. 6, 761-772. <http://dx.doi.org/10.1115/OMAE2008-57820> (included also in <http://www.lw20.com/2011122692383074.html>)
106. Rusu, E. Pilar, P and Guedes Soares, C., 2007: Avaliações da agitação marítima e deriva litoral junto à costa portuguesa (Predictions of waves and waves induced currents in the Portuguese nearshore), 5<sup>as</sup> Jornadas Portuguesas de Engenharia Costeira e Portuária (in portuguese).
107. Rusu, E., Pilar, P. and Guedes Soares, C., 2007: Avaliação com modelos espectrais das condições de agitação marítima no Arquipélago da Madeira (Evaluation of the wave conditions in Madeira Archipelago with spectral models), IV Congresso sobre Planeamento e Gestão das Zonas Costeiras dos Países de Expressão Portuguesa, Funchal, (in portuguese).
108. Rusu, E., Rusu, L. and Guedes Soares, C., 2006: Assessing of Extreme Wave Conditions in the Black Sea with Numerical Models, paper presented and published in the proceedings at the 9<sup>th</sup> International Workshop on Wave Hindcasting and Forecasting, Victoria, Canada, September, 2006. <http://www.waveworkshop.org/9thWaves/>
109. Conley, D.C., and Rusu, E., 2006: The Middle Way of Surf Modeling, paper presented and published in the proceedings at the 30<sup>th</sup> International Conference on Coastal Engineering - ICCE 2006, 2-9 September, San Diego, USA. Published in Coastal Engineering World Scientific Pub Co Inc Published 2007/07, Vol. 1, pp. 1053-1065. [http://e-proceedings.worldscinet.com/9789812709554/9789812709554\\_0090.html](http://e-proceedings.worldscinet.com/9789812709554/9789812709554_0090.html)
110. Rusu, E and Ventura Soares, C., 2005: Post Prestige Developments for the Wave Modeling Techniques in the Coastal Environment of Portugal, Fifth International Symposium - WAVES2005, 3<sup>rd</sup> – 7<sup>th</sup> July 2005, Madrid, Spain, Paper number 169, CD edition, 10p. <http://www.cedex.es/waves2005/>
111. Guedes Soares, C. and Rusu, E., 2005: SWAN Hindcast in the Black Sea, Fifth International Symposium - WAVES 2005, 3<sup>rd</sup> – 7<sup>th</sup> July 2005, Madrid, Spain, Paper number 155, CD edition, 11p. <http://www.cedex.es/waves2005/>.
112. Rusu, E., Soares, C.V., Pinto, J. P. and Silva, R., 2004: Extreme Events and Wave Forecast in the Iberian Nearshore, presented at the 29<sup>th</sup> International Conference on Coastal Engineering - ICCE2004, Lisbon, 19-24 September, published in Coastal Engineering World Scientific Pub Co Inc Published 2005, Vol. I, pp. 727-739. [http://e-proceedings.worldscinet.com/9789812701916/9789812701916\\_0058.html](http://e-proceedings.worldscinet.com/9789812701916/9789812701916_0058.html)
113. Silva, R., Jorge da Silva, A., Rusu, E., Oliveira, F., Lorangeiro, S., Tabora R., 2004: Evaluation of the Longshore Current for a Sector of the Portuguese West Coast: Application of Different Methodologies, presented at the 29<sup>th</sup> International Conference on Coastal Engineering - ICCE2004, Lisbon, 19-24 September, published in Coastal Engineering World Scientific Pub Co Inc Published 2005, Vol. II, pp. 1455-1467. [http://e-proceedings.worldscinet.com/9789812701916/9789812701916\\_0116.html](http://e-proceedings.worldscinet.com/9789812701916/9789812701916_0116.html)
114. Rusu, E., Jorge da Silva, A., Ventura Soares, C., Silva, R., Gomes, F., Sancho, F., 2004: Assessments of the Wave Induced Circulation in the Portuguese Nearshore, poster presentation, Section Operational Oceanography, the 1<sup>st</sup> EGU General Assembly, Nisa, France. <http://www.cosis.net/abstracts/EGU04/03882/EGU04-J-03882.pdf>
115. Rusu, E., Matulea, I. and Rusu, L., 2004: Linear and Non Linear Models to Assess the Wave Induced Currents in the Nearshore, Seventh International Conference on Marine Sciences and Technologies (BLACKSEA2004), Varna, Bulgaria, Bulgaria, pp. 151-158.
116. Rusu, E., Rusu, L. and Matulea, I., 2004: Prediction of the Nearshore Wave Propagation with Spectral Models, Seventh International Conference on Marine Sciences and Technologies (BLACKSEA2004), Varna, Bulgaria, pp. 142-150.
117. Gomes, F., Bessa Pacheco, M., Jorge da Silva, A., Silva, R., Rusu, E., 2004: Using SIG to estimate the nearshore circulation, Proceedings of the Conference EUE2004, 17-19 November, Lisbon, Portugal, pp. 66-75 (in Portuguese), [http://www.igeo.pt/servicos/DPCA/biblioteca/publicacoes/IGP/ESIG\\_2004/p028.pdf](http://www.igeo.pt/servicos/DPCA/biblioteca/publicacoes/IGP/ESIG_2004/p028.pdf)
118. Gomes, F., da Silva, J., Bessa Pacheco, M., Silva, R., Rusu, E., 2004: Medição das Correntes Induzidas pela Agitação Marítima em Ambiente Costeiro: Aplicação de Ferramentas de SIG. (Measurement of the Wave Induced Currents in Coastal Environment: Application of SIG tools. EUE 2004, 3.º Encontro Nacional de Utilizadores ESRI. 2004, (included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>).

119. Gomes, F., Bessa Pacheco, M., da Silva, J., Silva, R., Rusu, E., 2004: Using GIS in the evaluation of wave induced currents in the Portuguese nearshore. Poster to 1<sup>st</sup> *European Geosciences Union General Assembly*. 2004. Nice, France; (Included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>).
120. Vitorino, J., Rusu, E., Almeida, S., Monteiro, M., Lermusaux, P., Haley, P., Leslie, W., Miller, P., Coelho, E. and Signell, R., 2003: Operational Environmental Assessment 'Prestige' (a recent application of the MOCASSIM system), presentation at the *Joint Assembly EGS-AGU-EUG*, Nice, France, 7-11 April. <http://www.cosis.net/abstracts/EAE03/13325/EAE03-J-13325V.pdf> (Included also in <http://adsabs.harvard.edu/abs/2003EAEJA....13325V>).
121. Rusu, E., Silva, R., Pinto, J., Rusu, L., Soares, C. and Vitorino, J., 2003: Assessment and Prediction of the Nearshore Wave Propagation in the Case of M/V Prestige Accident, poster presentation, Section Operational Oceanography, The *Joint Assembly EGS-AGU-EUG*, Nice, France, 7-11 April. <http://cosis.net/abstracts/EAE03/07016/EAE03-J-07016.pdf>
122. Pinto, J.P., Bernardino, M., Silva, R., Rusu, E., 2004: Operational wave model for the Portuguese coast, 1<sup>st</sup> *European Geosciences Union - General Assembly*. 2004. Nice, France; (included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>).
123. Silva, R. and Rusu, E., 2003: Projections and Predictions for the Wave Climate in Madeira Archipelago, poster presentation, Section Operational Oceanography, The *Joint Assembly EGS-AGU-EUG*, Nice, France, 7-11 April. <http://cosis.net/abstracts/EAE03/06861/EAE03-J-06861.pdf>
124. Rusu, E., Soares, C.V., Santos, L., Vitorino, J., 2003: From Hindcast to Operational Forecast of the wave conditions in the nearshore, Poster to EGS-AGU-EUG Joint Assembly. 2003. Abstracts Vol.5. Nice, France, 7-11 April. (Included also in <http://www.iugg.org/members/nationalreports/portugal2006.pdf>).
125. Rusu, E., Soares, C.V., Pinto, J.P., Rusu, L., 2003: Lusowaves - Implementação de um Sistema Operacional de Previsão da Agitação Marítima Junto a Costa Portuguesa, (Lusowaves-Implementation of an Operational System for Wave Prediction in the Portuguese Nearshore), 3<sup>as</sup> *Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, 2003 15p, CD edition, (in Portuguese). (Work mentioned in Hidromar/2003/p13 <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf>)
126. Rusu, E., Silva, R., Soares, C.V., 2003: Um Modelo para Estimar as Condições na Zona de Rebentação, (A Model to Estimate the Breaking Conditions), 3<sup>as</sup> *Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, CD edition, 12p, (in Portuguese). (work mentioned in Hidromar/2003/p13 <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf>)
127. Silva, R., Rusu, E., da Silva, A.J., Larangeiro, S., Mateus, P., Santos, P., 2003: Estimativa da Corrente de Deriva Litoral na Costa Oeste de Portugal Entre a Figueira da Foz e a Nazare (Estimation for the Nearshore Currents on the East Coast of Portugal between Figueira da Foz and Nazare), 3<sup>as</sup> *Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, CD edition, 10p, (in Portuguese). (Work mentioned in Hidromar/2003/p13 <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf>)
128. Soares, C.V., Rusu, E., Pires Silva, A.A., Makarynsky, O., 2003: Técnicas de Medição de Parâmetros de Agitação Marítima: Intercomparação e Validação de Modelos, (Techniques for Measurement the Wave Parameters: Inter-comparisons and Model Validations), 3<sup>as</sup> *Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, CD edition, 12p., (in Portuguese). (Work mentioned in Hidromar/2003/p13 <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf>)
129. Pinto, J.P., Rusu, E., Silva, R., Soares, C.V., 2003: Implementação de um Modelo Global para Previsão de Agitação Marítima (Implementation of a Global Model for Wave Prediction), 3<sup>as</sup> *Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, CD edition, 10p, (in Portuguese). (Work mentioned in Hidromar/2003/p13. <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf>)
130. Rusu, E., Soares, C.V., Pires Silva, A.A., Pinto, J. P. and Makarynsky, O., 2002: Near Real Time Assessment of the Wave Propagation in the Coastal Environment of Portugal. *Proceedings of the 6<sup>th</sup> International Conference EUROCOAST, Littoral 2002*, Porto, Portugal 22-26 September, Vol. II, pp. 175-184. [http://www.io-warnemuende.de/homepages/schernewski/Littoral2000/docs/vol2/Littoral2002\\_22.pdf](http://www.io-warnemuende.de/homepages/schernewski/Littoral2000/docs/vol2/Littoral2002_22.pdf)
131. Rusu, E., Pinto, J.P., Silva, R., Soares, C.V., 2002: A Method to Predict Wave Conditions in Island Environment. *Proceedings of the 7<sup>th</sup> International Workshop on Wave Hindcasting and Forecasting*, Banff, Alberta, Canada 21-25 October, pp. 215-226. <http://www.waveworkshop.org/7thWaves/index.htm>.
132. Soares, C.V., Rusu, E., Santos, L.Q., Pires Silva, A.A., Makarynsky, O., 2002: Coastal Wave Modeling Validation Using New Field Techniques. Presented at the *7<sup>th</sup> International Workshop on Wave Hindcasting and Forecasting*, Banff, Alberta, Canada 21-25 October, pp. 361-372. <http://www.waveworkshop.org/7thWaves/index.htm>.
133. Rusu, E., Soares, C.V., Pinto, J.P., 2002: Interactive interface to evaluate the nearshore wave propagation, 3<sup>rd</sup> Assembly Luso-Spanish, Valencia, Spain. (Work mentioned in Hidromar/2002/p14 <http://websig.hidrografico.pt/www/content/documentacao/hidromar/2002/hidromar69.pdf>)
134. Rusu, E., Soares, C.V., Coelho, E.F., 2001: Aplicação em Ambiente Matlab, para Estimar as Características de Agitação Marítima em Águas Pouco Profundas (An Application in Matlab to Estimate the Nearshore Wave Characteristics), *Seminário Hidroinformática em Portugal*, Lisbon, 16 November CD edition, 12p (in Portuguese).
135. Pires Silva, A.A., Makarynsky, O., Rusu, E., Soares, C. V., Coelho, E. F., 2000: Exploração de Modelos Encaixados na Simulação da Agitação Marítima junto a Costa (Evaluation of the Spectral Models to Simulate the Nearshore Wave Conditions), 7<sup>as</sup> *Jornadas Técnicas de Engenharia Naval, O Mar e os Desafios do Futuro*, 1-2 March, Lisbon, pp 57-66 (in Portuguese).

136. Soares, C.V., Rusu, E., Coelho, E.F., Pires Silva, A.A., Makarynsky, O., 2000: A Nowcast Tool to Assess Wave Parameters in Coastal Areas, *Proceedings of the 6<sup>th</sup> International Workshop on Wave Hindcasting and Forecasting*, Monterey, SUA, 6-10 November, pp. 367-376. <http://www.waveworkshop.org/6thWaves/Table%20of%20Contents.pdf>
137. Rusu, E., Coelho, E.F., 2000: A Model to Estimate the Wave Conditions in the Portuguese Nearshore, *Proceedings of the 3<sup>rd</sup> Symposium on the Atlantic Iberian Continental Margin*, Faro, Portugal, 25-27 September, pp.99-100. [ftp://ftp.liv.ac.uk/pub/SPAN/INDIA\\_FinalReport/Appendix%20VI%20-%20End-User-Workshop%20Abstracts.pdf](ftp://ftp.liv.ac.uk/pub/SPAN/INDIA_FinalReport/Appendix%20VI%20-%20End-User-Workshop%20Abstracts.pdf)
138. Rusu, E., Coelho, E. F., Soares, C. V., 2000: Prediction of the Surf Conditions with Spectral Wave Models, *Proceedings of the 3<sup>rd</sup> Symposium on the Atlantic Iberian Continental Margin*, Faro, Portugal, 25-27 September, pp.107-108. [ftp://ftp.liv.ac.uk/pub/SPAN/INDIA\\_FinalReport/Appendix%20VI%20-%20End-User-Workshop%20Abstracts.pdf](ftp://ftp.liv.ac.uk/pub/SPAN/INDIA_FinalReport/Appendix%20VI%20-%20End-User-Workshop%20Abstracts.pdf)
139. E Rusu, D Silva, C Guedes Soares, 2016. Evaluation of the shoreline dynamics in a coastal sector of the Portuguese nearshore, *Maritime Technology and Engineering 3 – Guedes Soares & Santos (Eds) © 2016 Taylor & Francis Group, London, ISBN 978-1-138-03000-8*, pp. 1079-1086.
140. F Onea, A Raileanu, E Rusu, 2016, Evaluation of the wave energy potential in some locations where European offshore wind farms operate, *Maritime Technology and Engineering 3 – Guedes Soares & Santos (Eds) © 2016 Taylor & Francis Group, London, ISBN 978-1-138-03000-8*, pp.1119-1124.
141. Rusu, E and Guedes Soares, 2015: Influence of a new quay on the wave propagation inside the Sines harbour, *Maritime Technology and Engineering – Guedes Soares & Santos (Eds)© 2015 Taylor & Francis Group, London, ISBN 978-1-138-02727-5*, pp. 1355-1364
142. Rusu,E, Silva, D, C. Guedes Soares, 2013: Efficiency assessment for different WEC types operating in the Portuguese coastal environment, *Developments in Maritime Transportation and Exploitation of Sea Resources –Guedes Soares & López Peña (eds)© 2014 Taylor & Francis Group, London, ISBN 978-1-138-00124-4*, pp 961-969.
143. Rusu,E, C. Guedes Soares, 2013: Modelling the effect of wave current interaction at the mouth of the Danube river, *Developments in Maritime Transportation and Exploitation of Sea Resources –Guedes Soares & López Peña (eds)© 2014 Taylor & Francis Group, London, ISBN 978-1-138-00124-4*, pp 979-986.
144. A. Morales Vaquero, F. Castro Ruiz, E. Rusu, 2013: Evaluation of the wave power potential in the northwestern side of the Iberian nearshore, *Developments in Maritime Transportation and Exploitation of Sea Resources –Guedes Soares & López Peña (eds)© 2014 Taylor & Francis Group, London, ISBN 978-1-138-00124-4*, pp 1012-1019.
145. Rusu, E., Goncalves, M., Guedes Soares, C., 2012: High resolution wave model simulations in the Portuguese nearshore, *Marine Environment, Dynamics & Hydrodynamics*, Marine Technology and Engineering, C Guedes Soares Editor, Vol. 1, Taylor & Francis Group, London. <http://www.crcpress.com/product/isbn/9780415698085>
146. Rusu, E., 2011, Wave Energy Assessments and Modelling of Wave-Current Interactions in the Black Sea (58p), (Ch. 23) in *Macro-engineering Seawater in/and Unique Environments*, Springer-Verlag Publishing House. <http://www.springerlink.com/content/h66h73475834728/>
147. Rusu, E., Onea, F., and Toderascu, R., 2011 *The Black Sea: Dynamics, Ecology and Conservation*, Ch. Dynamics of the environmental matrix in the Black Sea as reflected by recent measurements and simulations with numerical models, Nova Science Publishers, Inc, New York. [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=15888](https://www.novapublishers.com/catalog/product_info.php?products_id=15888)
148. Rusu, E. and Butunoiu, D., 2011. *Wave Modeling in Coastal Zones with Application to the Romanian Nearshore*, Publishing House of the Romanian Technical Academy and General Association of the Romanian Engineering - AGIR Ed., Bucharest, 325p (in Romanian). <http://www.agir.ro/carte/modelarea-valurilor-in-zonele-costiere-cu-aplicatii-la-litoralul-romanesco-111117.html>
149. Rusu, E. and Zanol, A, 2009. *Modelling the nearshore currents*, Galati University Press, 211p.
150. Rusu, E. Pilar, P and Guedes Soares, C., 2008: Development of a Wave Prediction System for the Madeira Archipelago, *Maritime Industry, Ocean Engineering and Coastal Resources*, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. II, pp. 787-799 <http://www.taylorandfrancis.com/books/details/9780415455237/>
151. Macuta, S.and Rusu, E., 2008: Experimental research regarding the evolution of some parameters of the superficial layer in the low cycle fatigue process, *Maritime Industry, Ocean Engineering and Coastal Resources*, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. I, pp. 219-224 <http://www.taylorandfrancis.com/books/details/9780415455237/>
152. Strat, I., Matulea, I., Rusu, E., Ionita, B., 2008: Studies on the motion of a moored floating body, *Maritime Industry, Ocean Engineering and Coastal Resources*, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. II, pp. 897-904. <http://www.taylorandfrancis.com/books/details/9780415455237/>
153. Gonçalves, M., Pilar, P., Rusu, E. and Guedes Soares, C., 2008: Simulações com o modelo STWAVE junto a costa Portuguesa (STWAVE simulations in the Portuguese nearshore), *As Actividades Marítimas e a Engenharia*, C. Guedes Soares e V. Gonçalves de Brito (Eds), Ed. Salamandra, Lisboa, 12p (in Portuguese). <http://www.mar.ist.utl.pt/jornadas/>
154. Rusu, E. Ventura Soares, C. and Rusu, L., 2006: Computational Strategies and Visualization Techniques for the Waves Modeling in the Portuguese Nearshore, *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1129-1136 <http://www.taylorandfrancis.com/books/details/9780415390361/> (Work included also in the database: <http://www.crcnetbase.com/doi/abs/10.1201/9781439833728.ch136>),

155. Conley, D.C. and Rusu, E., 2006: Tests of wave shoaling and surf models in a partially enclosed basin, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1015-1021. <http://www.taylorandfrancis.com/books/details/9780415390361/>, <http://www.crcnetbase.com/doi/abs/10.1201/9781439833728.ch120>
156. Matulea, I.C., Strat, I. and Rusu, E., 2006: Pipeline Installed by Free Immersion in the Black Sea Offshore Areas, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1431-1438 <http://www.taylorandfrancis.com/books/details/9780415390361/>, <http://www.crcnetbase.com/doi/abs/10.1201/9781439833728.ch176>
157. Makarynsky, O., Makarynska, D. Rusu, E. and Gavrilov, A., 2006: Filling Gaps in Wave Records With Artificial Neural Networks, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1085-1091 <http://www.taylorandfrancis.com/books/details/9780415390361/>, <http://www.crcnetbase.com/doi/abs/10.1201/9781439833728.ch131>
158. Rusu, E., Pilar, P. and Guedes Soares, C., 2006: Avaliação do modelo SWAN em águas profundas junto à costa de Portugal Continental (Evaluation of the SWAN model in deep water close to the Portuguese continental coastal environment), *As Actividades Marítimas e a Engenharia*, C. Guedes Soares e V. Gonçalves de Brito (Eds), Ed. Salamandra, Lisboa, 10p.
159. Strat, I., Rusu, E., 2001: *Mecanica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 129p, (in limba Romana).
160. Rusu, E., 2000: *New Techniques For Studying Wave Dynamics in Shallow Water*, Editura Galateea Galați, Romania, 85p, (in limba Engleza).
161. Rusu, E., 2000: *Mecanica analitica a valurilor - metode numerice*, Editura Academica, 156p, (in limba Romana).
162. Rusu, E., 1998: *Mecanica Clasica*, vol. II, *Dinamica si mecanica Analitica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 182p, (in limba Romana).
163. Rusu, E., 1997: *Mecanica Clasica*, vol. I, *Statica si Cinematica*, Editura Fundatiei Universitatii "Dunărea de Jos" din Galați, 164p, (in limba Romana).

## **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. SAFE OFFLOAD (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 și Inginerie Marina.

## D2.2 Proiecte naționale

25. **ACCWA (PN-III-P4-ID-PCE-2016-0028)** - Evaluarea efectelor produse de schimbările 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, project number PN-II-ID-PCE-2012-4-0089, <http://www.im.ugal.ro/DAMWAVE/index.htm>
27. COSMOMAR (2014-2016) - Dezvoltarea unui centru de competență pentru tehnologii spațiale, dedicat dezvoltării sustenabile a regiunilor marine și costiere românești, programul STAR, participare ca membru în echipa la Institutul Grigore Antipa din Constanța. <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 exploatarele marine* (partea a-IIa) - Raport final -Grant nr. 5007/1996, poz. 1174, Octombrie 1996, pag. 1-27.
31. *Dinamica sistemelor pentru transferul hidrocarburilor din exploatarele 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 în 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. *Studiul 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. *Studiul 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 cercetatorilor pe baza de programe doctorale imbunatatite 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 agenților poluanți 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 EXCELD0C).

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.

**Ianuarie 2019**

**Eugen Rusu**

