

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Liliana Celia Rusu**  
**Address** 9, Traian Street, Bl. W3, Ap. 11, 800 043 Galati (Romania)  
**Telephone(s)** +40 236410434 **Mobile** +40 745399426  
**E-mail(s)** [lrusu@ugal.ro](mailto:lrusu@ugal.ro) ; [liliana.rusu@centec.tecnico.ulisboa.pt](mailto:liliana.rusu@centec.tecnico.ulisboa.pt) ; [lcrusu@gmail.com](mailto:lcrusu@gmail.com)  
**Nationality** Romanian / Portuguese  
**Date of birth** 11/01/1962  
**Gender** Female

### Work experience

**Dates** 15/03/2016 →  
**Occupation or position held** Professor, Department of Mechanical Engineering <http://www.im.ugal.ro/AcademicStaff.htm>  
**Main activities and responsibilities** Teaching and research  
**Name and address of employer** "Dunarea de Jos" University of Galati, <http://www.ugal.ro/>  
 47, Domneasca St., 800008 Galati, Romania  
**Type of business or sector** Public University

**Dates** 01/10/2012 – 14/03/2016  
**Occupation or position held** Associate Professor, Department of Mechanical Engineering <http://www.im.ugal.ro/AcademicStaff.htm>  
**Main activities and responsibilities** Teaching and research  
**Name and address of employer** "Dunarea de Jos" University of Galati, <http://www.ugal.ro/>  
 47, Domneasca St., 800008 Galati, Romania  
**Type of business or sector** Public University

**Dates** 24/02/2004 – 30/09/2012  
**Occupation or position held** Assistant Professor, Department of Applied Mechanics  
**Main activities and responsibilities** Teaching and research  
**Name and address of employer** "Dunarea de Jos" University of Galati, <http://www.ugal.ro/>  
 47, Domneasca St., 800008 Galati, Romania  
**Type of business or sector** Public University

**Dates** 2016 →  
**Occupation or position held** Professor (Collaborator), <http://www.mar.ist.utl.pt/en/centec/personnel.aspx?id=1>  
**Main activities and responsibilities** Scientific research focused mainly on wave modelling, renewable energy and analysis of the environmental data.  
**Name and address of employer** Centre for Marine Technology and Ocean Engineering - CENTEC, University of Lisbon  
 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal  
**Type of business or sector** Public University – Research Centre

Dates	01/12/2001 - 23/02/2004
Occupation or position held	Researcher
Main activities and responsibilities	Processing and analysis of the data registered by the wave-buoy network maintained by IH. Statistical analysis of environmental parameters. Extreme event analysis.
Name and address of employer	Instituto Hidrográfico - IH (Portuguese Hydrographic Institute of the Navy), 49, Rua das Trinas Street, 1249-093 Lisbon (Portugal) <a href="http://www.hidrografico.pt/">http://www.hidrografico.pt/</a>
Type of business or sector	Military and Research
Dates	01/08/1985 - 30/06/2001
Occupation or position held	Engineer
Main activities and responsibilities	ship reparations
Name and address of employer	DAMEN Shipyard (member of the Dutch Damen Group) 132, Moruzzi Street, 800 223 Galati (Romania)
Type of business or sector	Industrial (ship building)
<b>Education and training</b>	
Dates	October 2015
Title of qualification awarded	Habilitation
Principal subjects / occupational skills covered	Thesis title: <i>Engineering applications with spectral phase averaged wave models</i>
Name and type of organisation providing education and training	"Dunarea de Jos" University of Galati, 47, Domneasca Street, 800008 Galati, Romania
Dates	2010 - 2013
Title of qualification awarded	Post-doctoral specializations
Principal subjects / occupational skills covered	Wave modelling, data assimilation for regional wave prediction, implementation and developing of an operational wave prediction system for the Portuguese Coastal area. Development of a joint model system for wave predictions and assessing seakeeping performances As Postdoc Researcher I gave courses in the area of Modelling and Analysis of Sea Waves (Part B - Modelling the Physics of Wave Generation and Propagation), Doctoral Program in Naval Architecture and Marine Engineering, Instituto Superior Técnico.
Name and type of organisation providing education and training	Centre for Marine Technology and Ocean Engineering - CENTEC, University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Dates	2004 - 2009
Title of qualification awarded	PhD in Naval Architecture and Marine Engineering, Technical University of Lisbon, Portugal
Principal subjects / occupational skills covered	Studies concerning wave modelling in coastal areas and effects of currents on waves, ship dynamic responses. Thesis title: <i>Wave modelling and ship response in coastal waters with currents</i>
Name and type of organisation providing education and training	Technical University of Lisbon 1, Av. Rovisco Pais Street, 1049-001 Lisbon, Portugal
Dates	2002 - 2006
Title of qualification awarded	PhD in Mechanical Engineering, University <i>Dunarea de Jos</i> of Galati, Romania
Principal subjects / occupational skills covered	Modelling of the free-surface hydrodynamics Thesis title: <i>Researches and contributions to the spectral and Hamiltonian models applied to study wave dynamics</i>
Name and type of organisation providing education and training	"Dunarea de Jos" University of Galati 47 Domneasca Street, 800008 Galati, Romania
Dates	1980 - 1985
Title of qualification awarded	Diploma of Mechanical Engineering

Principal subjects / occupational skills covered	Mechanical Engineering																																			
Name and type of organisation providing education and training	"Dunarea de Jos" University of Galati, 47, Domneasca Street, 800 008 Galati, Romania																																			
<b>Personal skills and competences</b>	<ul style="list-style-type: none"> <li>- Classical and fluid mechanics. Mathematical modeling of free-surface hydrodynamics and wave-body interaction problems using Hamiltonian approach. Water wave mechanics.</li> <li>- Waves in ocean and coastal areas, wave propagation and coastal transformation, nearshore processes, wave-current interactions: modeling, mathematical theory and simulations with numerical wave models (SWAN, STWAVE, REF/DIF models).</li> <li>- Data processing and visualization using MATLAB environment</li> <li>- Spectral analysis</li> <li>- Wave energy assessment, Wave energy extraction and its coastal impact</li> </ul>																																			
Mother tongue(s)	<b>Romanian</b>																																			
Other language(s)																																				
Self-assessment <i>European level (*)</i>	<table border="1"> <thead> <tr> <th></th> <th colspan="2"><b>Understanding</b></th> <th colspan="2"><b>Speaking</b></th> <th colspan="2"><b>Writing</b></th> </tr> <tr> <th></th> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>Portuguese</b></td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> <td>C2 Proficient user</td> </tr> <tr> <td><b>English</b></td> <td>C1 Proficient user</td> <td>C1 Proficient user</td> <td>C1 Proficient user</td> <td>C1 Proficient user</td> <td>C1 Proficient user</td> <td>C1 Proficient user</td> </tr> <tr> <td><b>French</b></td> <td>B1 Independent user</td> <td>B1 Independent user</td> <td>A2 Basic User</td> <td>A2 Basic User</td> <td>A2 Basic User</td> <td>A2 Basic User</td> </tr> </tbody> </table>		<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>			Listening	Reading	Spoken interaction	Spoken production			<b>Portuguese</b>	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	<b>English</b>	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	<b>French</b>	B1 Independent user	B1 Independent user	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic User
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<b>French</b>	B1 Independent user	B1 Independent user	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic User																														
Social skills and competences	<p>Team work: I have worked in various research teams and most of my major publications were resulted from working in a team.</p> <p>Good ability to adapt to multicultural environments, gained though my work experience abroad.</p> <p>Good communication skills: I have to deal with a lot of students, so human communication is in some sense my job. I have also a large experience in participating to international meetings where I presented communications.</p>																																			
Organisational skills and competences	I am currently supervising Master students in both Romania and Portugal.																																			
Technical skills and competences	<p>I have accumulated during the time considerable competencies and skills in various technical areas related to my main fields of expertise: Marine and Mechanical Engineering.</p> <p>Due to my current scientific work I have special competences as regards environmental data.</p>																																			
Computer skills and competences	<p>very good command of Matlab - data processing and visualisation using MATLAB environment</p> <p>good command of Microsoft Office tools (Word, Excel and PowerPoint);</p> <p>good command of graphic design applications (Paint Shop Pro, Photo Shop, etc)</p>																																			
Other skills and competences	I have a great capacity of concentration on my work and focus on the most essential issues.																																			
Driving licence(s)	Category B																																			
<b>Additional information</b>	<p><b>Membership</b></p> <ul style="list-style-type: none"> <li>- Member of the marine knowledge expert group of the European Commission <a href="https://webgate.ec.europa.eu/maritimeforum/en/node/4129">https://webgate.ec.europa.eu/maritimeforum/en/node/4129</a></li> <li>- National Ethics Council for Research Activities <a href="http://cne.ancs.ro/membri-si-comisii/">http://cne.ancs.ro/membri-si-comisii/</a></li> <li>- STSM Coordinator, WECANet COST Action 17105 <a href="https://www.wecanet.eu/https://www.cost.eu/actions/CA17105/#tabs Name:overview">https://www.wecanet.eu/https://www.cost.eu/actions/CA17105/#tabs Name:overview</a></li> <li>- OCEANEXPERT <a href="http://oceanexpert.org/viewMemberRecord.php?&amp;memberID=14478">http://oceanexpert.org/viewMemberRecord.php?&amp;memberID=14478</a></li> <li>- IMAM – International Maritime Association of the Mediterranean, ART</li> <li>- Member of the ICACER Conference Technical Committees (2016 - Bangkok, 2018 – Barcelona, 2019 - Coimbra) <a href="http://www.icacer.com/com.html">http://www.icacer.com/com.html</a></li> <li>- Member of the ICPRE Conference Technical Committee (2018 – Berlin, 2019 - Chengdu, China) <a href="http://www.icpre.org/committee.html">http://www.icpre.org/committee.html</a></li> <li>- International Scientific Advisory Committee, International Conference on Energy for Environmental and Economic Sustainability (2016 – Lahore) <a href="http://iceees2016.umd.edu.pk/committees.aspx">http://iceees2016.umd.edu.pk/committees.aspx</a></li> <li>- Member of the Scientific Advisory Board of the 1<sup>st</sup> SDEWES Latin American Conference (2018), Rio de Janeiro, Brazilia <a href="http://www.rio2018.sdewes.org/sab.php">http://www.rio2018.sdewes.org/sab.php</a>; 2<sup>nd</sup> SDEWES Latin American Conference (2020), Buenos Aires, Argentina <a href="http://www.buenosaires2020.sdewes.org/">http://www.buenosaires2020.sdewes.org/</a></li> </ul>																																			

- Member of the Scientific Advisory Board of the 13<sup>th</sup> SDEWES Conference (2018), Palermo, Italia <http://www.palermo2018.sdwes.org/sab.php>, 14<sup>th</sup> SDEWES Conference (2019), Dubrovnik, Croatia <https://www.dubrovnik2019.sdwes.org/>
- Member of the Advisory Committee - 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG 2020), Prague, Czech Republic [www.ccesg.org](http://www.ccesg.org)
- Editorial board of the journals: Renewable Energy Research, Civil Engineering Journal, Journal of Marine Science and Engineering (indexed WoS)  
<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=299>  
<http://www.mdpi.com/journal/jmse/editors>  
<https://civilejournal.org/index.php/cej/about/editorialTeam>

#### Awards/Prizes:

- **Best paper Award 2018**, at 1<sup>st</sup> Latin american Conference on Sustainable Development of Energy, Water and Environment Systems – LA SDEWES 2018, Rio de Janeiro, Brazil
- **Best oral presentation of Session 2**, International Conference on Advances on Clean Energy Research – ICACER2016. <http://www.icacer.com/his.html>
- **Best Paper Award 2014**, Recognition for acting as first author on a top cited paper, awarded by Elsevier and *Renewable Energy* journal.  
[https://www.researchgate.net/publication/281279053\\_RENE\\_Best\\_Paper\\_Award\\_Rusu\\_Liliana](https://www.researchgate.net/publication/281279053_RENE_Best_Paper_Award_Rusu_Liliana)
- **Prize acorded in 2015 by UEFISCDI** in the framework of PN II program, for Habilitation degree.
- **Prize acorded in 2010 and 2015 by UEFISCDI** in the framework of PN II program, for two paper (single author).
- **Prize acorded in 2015 by UEFISCDI** in the framework of PN II program, for a paper (principal author).
- **'Anghel Saligny' Award** for results of excellence in teaching position as associate professor, awarded by the Board of the Faculty of Engineering, "Dunarea de Jos" University of Galati, for three successive years: 2013, 2014, 2015

**Researcher ID:** <http://www.researcherid.com/rid/B-6823-2011> **H index = 19**

**SCOPUS ID:** <http://www.scopus.com/authid/detail.url?authorId=24067330300> **H index = 21**

**Google:** <https://scholar.google.com/citations?user=DUgsKoQAAAAJ&hl=ro&oi=ao> **H index = 22**

**ORCID:** <http://orcid.org/0000-0002-8179-1347>

**Researchgate:** [https://www.researchgate.net/profile/Liliana\\_Rusu](https://www.researchgate.net/profile/Liliana_Rusu)

## Annexes

### List of Relevant Publications and Participation to Research Projects

June 2020

Liliana Celia Rusu

# ANNEX

## LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

### A1 Publications in international journals with ISI quotations

1. Rusu, L., 2019. Evaluation of the near future wave energy resources in the Black Sea under two climate scenarios. *Renewable Energy* 142, 137-146. <https://doi.org/10.1016/j.renene.2019.04.092>
2. Rusu, L., 2019. The wave and wind power potential in the western Black Sea. *Renewable Energy* 139, 1146-1158. <https://doi.org/10.1016/j.renene.2019.03.017>
3. Onea, F., Rusu, L., 2019. A Study on the Wind Energy Potential in the Romanian Coastal Environment, *Journal of Marine Science and Engineering*, 7(5), 142 <https://doi.org/10.3390/jmse7050142>
4. Onea, F., Rusu, L., 2019. Long-Term Analysis of the Black Sea Weather Windows, *Journal of Marine Science and Engineering*, 7(9), 303, <https://doi.org/10.3390/jmse7090303>
5. Anton, I.A., Rusu, L., Anton, C., 2019. Nearshore Wave Dynamics at Mangalia Beach Simulated by Spectral Models, *Journal of Marine Science and Engineering*, 7(7), 206 <https://doi.org/10.3390/jmse7070206>
6. Rusu, L., Raileanu, A.B., Onea, F., 2018. A comparative analysis of the wind and wave climate in the Black Sea along the shipping routes. *Water* 10(7), 924, 18 pag. <http://www.mdpi.com/2073-4441/10/7/924>
7. Rusu, L., Ganea, D., Mereuta, E., 2018. A joint evaluation of wave and wind energy resources in the Black Sea based on 20-year hindcast information. *Energy Exploration & Exploitation* 36(2), 335-351. <http://journals.sagepub.com/doi/full/10.1177/0144598717736389>
8. Ganea, D., Mereuta, E., Rusu, L., 2018. Estimation of the Near Future Wind Power Potential in the Black Sea. *Energies* 11(11), 3198, 21 pag. <https://www.mdpi.com/1996-1073/11/11/3198>
9. Onea, F., Rusu, L., 2018. Evaluation of Some State-Of-The-Art Wind Technologies in the Nearshore of the Black Sea. *Energies* 11(9), 2452, 16 pag. <https://www.mdpi.com/1996-1073/11/9/2452>
10. Rata, V., Gasparotti, C., Rusu, L., 2018. Ballast Water Management in the Black Sea's Ports. *Journal of Marine Science and Engineering* 6(2), 69, 10 pag. <http://www.mdpi.com/2077-1312/6/2/69>
11. Rusu, L., Onea, F., 2017. The performance of some state-of-the-art wave energy converters in locations with the worldwide highest wave power. *Renewable and Sustainable Energy Reviews* 75, 1348-1362. <http://dx.doi.org/10.1016/j.rser.2016.11.123>
12. Onea, F., Rusu, L., 2017. A long-term assessment of the Black Sea wave climate. *Sustainability* 9(10), 1875. <http://www.mdpi.com/2071-1050/9/10/1875>
13. Bernardino, M., Rusu, L., Guedes Soares, C., 2017. Evaluation of the wave energy resources in the Cape Verde Islands. *Renewable Energy* 101, 316-326. <http://dx.doi.org/10.1016/j.renene.2016.08.040>
14. Almeida, S., Rusu, L., Guedes Soares, C., 2016. Data assimilation with the ensemble Kalman filter in a high-resolution wave forecasting model for coastal areas. *Journal of Operational Oceanography* 9(2), 1-21. <http://dx.doi.org/10.1080/1755876X.2016.1244232>
15. Onea, F., Deleanu, L., Rusu, L., Georgescu, C., 2016. Evaluation of the wind energy potential along the Mediterranean Sea coasts. *Energy Exploration & Exploitation*, 34 (5), 766-792. <http://dx.doi.org/10.1177/0144598716659592>
16. Rusu, L., 2015. Assessment of the Wave Energy in the Black Sea Based on a 15-Year Hindcast with Data Assimilation. *Energies*, 8 (9), 10370-10388. <http://dx.doi.org/10.3390/en80910370>
17. Rusu, L., Butunoiu, D., 2015. Numerical modelling of the wave propagation close to the Sacalin island in the Black Sea. *Journal of Marine Science and Technology – Taiwan* 23 (5), 669-677. <http://jmst.ntou.edu.tw/marine/23-5/669-677.pdf>
18. Rusu, L., Guedes Soares, C., 2015. Impact of assimilating altimeter data on wave predictions in the western Iberian coast. *Ocean Modelling* 96, 126-135. <http://dx.doi.org/10.1016/j.ocemod.2015.07.016>
19. Rusu, L., Onea, F., 2015. Assessment of the performances of various wave energy converters along the European continental coasts. *Energy* 82, 889-904. <http://dx.doi.org/10.1016/j.energy.2015.01.099>
20. Ivan, A., Rusu, L., 2015. Validation of the SWAN model for the influence of opposite currents on the wave spectra. *Environmental Engineering and Management Journal* 14(4), 751-761.. [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol14/no4/5\\_564\\_Ivan\\_11.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol14/no4/5_564_Ivan_11.pdf)
21. Omer, I., Mateescu, R., Rusu, L., Niculescu, D., Vlasceanu, E., 2015. Coastal works extensions on the romanian touristic littoral, its ecological impacts on the nearshore bathing areas. *Journal of Environmental Protection and Ecology* 16(2), 424-433. <http://www.jepe-journal.info/journal-content/vol-16-no-2-2015>



22. Rusu, L., Guedes Soares, C., 2014. Local data assimilation scheme for wave predictions close to the Portuguese ports. *Journal of Operational Oceanography* 7(2), 45-57. <http://www.tandfonline.com/doi/abs/10.1080/1755876X.2014.11020158>
23. Rusu, L., Guedes Soares, C., 2014. Forecasting fishing vessel responses in coastal areas. *Journal of Marine Science and Technology* 19 (2), 215-227. <http://dx.doi.org/10.1007/s00773-013-0241-2>
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* 15 (2), 445-454. <http://www.jepe-journal.info/vol-15-no-2-2014>
25. Rusu, L., Bernardino, M., Guedes Soares, C., 2014. Wind and wave modelling in the Black Sea. *Journal of Operational Oceanography* 7(1), 5-20. <http://www.tandfonline.com/doi/abs/10.1080/1755876X.2014.11020149>
26. Gasparotti, C., Rusu, L., 2014. Prediction of the dynamic responses for two containerships operating in the Black Sea. *Journal of Naval Architecture and Marine Engineering* 11 (1), 55-68. <http://dx.doi.org/10.3329/jname.v11i1.17289>
27. Rusu, L., Butunoiu, D., 2014. Evaluation of the wind influence in modeling the Black Sea wave conditions. *Environmental Engineering and Management Journal* 13 (2), 305-314. [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no2/10\\_573\\_Rusu\\_11.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no2/10_573_Rusu_11.pdf)
28. Rusu, L., Guedes Soares, C., 2013. Evaluation of a high-resolution wave forecasting system for the approaches to ports. *Ocean Engineering* 58, 224-238. <http://dx.doi.org/10.1016/j.oceaneng.2012.11.008>
29. Rusu, L., Guedes Soares, C., 2012. Wave energy assessments in the Azores islands. *Renewable Energy* 45, 183-196. <http://dx.doi.org/10.1016/j.renene.2012.02.027>
30. Rusu, L., Bernardino, M., Guedes Soares, C., 2011. Modelling the influence of currents on wave propagation at the entrance of the Tagus estuary. *Ocean Engineering* 38 (10), 1174-1183. <http://dx.doi.org/10.1016/j.oceaneng.2011.05.016>
31. Rusu, L., Guedes Soares, C., 2011. Modelling the wave-current interactions in an offshore basin using the SWAN model. *Ocean Engineering* 33(1), 63-76. <http://dx.doi.org/10.1016/j.oceaneng.2010.09.012>
32. Guedes Soares, C., Rusu, L., Bernardino, M., Pilar, P., 2011. An operational wave forecasting system for the Portuguese continental coastal area. *Journal of Operational Oceanography* 4 (2), 17-27. <http://www.tandfonline.com/doi/abs/10.1080/1755876X.2011.11020124>
33. Rusu, L., 2010. Application of numerical models to evaluate oil spills propagation in the coastal environment of the Black Sea. *Journal of Environmental Engineering and Landscape Management* 18 (4), 288-295. <http://www.tandfonline.com/doi/abs/10.3846/jeelm.2010.33>
34. Rusu, L., Ivan, A., 2010. Modelling Wind Waves in the Romanian Coastal Environment. *Environmental Engineering and Management Journal* 9(4), 547-552. [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol9/no4/18\\_2\\_Rusu\\_10.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol9/no4/18_2_Rusu_10.pdf)
35. Rusu, L., Bernardino, M., Guedes Soares, C., 2009. Influence of Wind Resolution on the Prediction of Waves Generated in an Estuary. *Journal of Coastal Research* SI 56, 1419- 1423. [http://e-geo.fcsh.unl.pt/ICS2009/docs/ICS2009\\_Volume\\_II/1419.1423\\_L.Rusu\\_IC2009.pdf](http://e-geo.fcsh.unl.pt/ICS2009/docs/ICS2009_Volume_II/1419.1423_L.Rusu_IC2009.pdf)
36. Rusu, L., Pilar, P., Guedes Soares, C., 2008. Hindcast of the wave conditions along the west Iberian coast. *Coastal Engineering* 55(11), 906-919. <http://dx.doi.org/10.1016/j.coastaleng.2008.02.029>
37. Rusu, E., Silva, R., Soares, C.V., Rusu, L., 2003. Wave Forecast in the Coastal Environment Affected by M/V Prestige Breakdown, paper presented at the 4<sup>th</sup> Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July, published in *Thalassas – An International Journal of Marine Science*, 161-162. [http://webs.uvigo.es/thalassas/thalassas\\_marco%20principal.htm](http://webs.uvigo.es/thalassas/thalassas_marco%20principal.htm)

## A2 Books

1. Rusu, L., Raileanu, A., Onea, F., 2016. Asimilarea de date cu aplicații la predicția climatului de val în bazinul Mării Negre (Data Assimilation with application to the wave prediction in the Black Sea), Ed. Zigotto, Galati, 300p, ISBN 978-606-669-182-6 (in Romanian).
2. Rusu, L., 2015. Mecanica - Statica, Notiuni teoretice si aplicatii. Editura Zigotto Galati, ISBN 978-606-669-140-6, 192p (in Romanian).
3. Rusu, L., Ivan, A., 2011. Modelling of the hydrodynamic processes in delta and estuary areas. Publishing House of the Romanian Technical Academy and General Association of the Romanian Engineering - AGIR Ed., Research and Studies Series, Bucharest, ISBN 978-973-720-365-6, 184 p (in Romanian). [http://www.edituraagir.ro/catalogul\\_editurii.php](http://www.edituraagir.ro/catalogul_editurii.php)
4. Matulea, I., Slamnoiu, G., Popa, V., Rusu, L., Nastase, I., Oancea, G., 2007. Spectral and Probabilistic Models in Marine Technology, Publishing House of University "Dunărea de Jos" of Galati, ISBN978-973-627-366-7, 248p (in Romanian).

## A3 Book chapters

1. Rusu, L., Bernardino, M., Guedes Soares, C., 2018. Analysis of extreme storms in the Black Sea. *Progress in Maritime Engineering and Technology – Guedes Soares & Santos (Eds.)*, Taylor & Francis Group, London, 699-704.
2. Rusu, L., 2018. Evaluation of the accuracy of the spectral models in predicting the storm events in the Black Sea. *Maritime Transportation and Harvesting of Sea Resources – Guedes Soares & Teixeira (Eds.)*, Taylor & Francis Group, London, 1105-1110.
3. Rusu, L., Gonçalves, M., Guedes Soares, C., 2018. Prediction of storm conditions using wind data from the ECMWF and NCEP reanalysis. *Maritime Transportation and Harvesting of Sea Resources – Guedes Soares & Teixeira (Eds.)*, Taylor & Francis Group, London, 1111-1117.
4. Rusu, L., Guedes Soares, C., 2016. Comparison of various data assimilation methods to improve the wave predictions in the Portuguese coastal environment. *Maritime Technology and Engineering 3 – Guedes Soares & Santos (Eds.)*, Taylor & Francis Group, London, 1087-1093.

5. Guedes Soares, C., Salvação, N., Gonçalves, M., Rusu, L., 2016. Validation of an operational wave forecasting system for the North Atlantic area. *Maritime Technology and Engineering 3* – Guedes Soares & Santos (Eds), Taylor & Francis Group, London, 1037-1043.
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#### **A4 Publications in the proceedings of international conferences (selection)**

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## A5 Publications in Romanian Journals (selection)

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## A6 PARTICIPATION TO RELEVANT RESEARCH PROJECTS

- 2017 - 2019: Assessment of the Climate Change effects on the Wave conditions in the Black Sea – ACCWA (PN-III-P4-IDPCE-2016-0028), at "Dunarea de Jos" University of Galati, Romania, **project responsible.** <http://www.im.ugal.ro/ACCWA/index.php>
- 2017 - 2019: Renewable Energy extraction in MARine environment and its Coastal impact - REMARC (PN-III-P4-IDPCE-2016-0017), at "Dunarea de Jos" University of Galati, Romania, **team member.** <http://www.im.ugal.ro/REMARC/index.php>
- 2018 - 2020: Renewable Energy extraction in MARine environment and its Coastal impact – ROMAR (PN-III-P4-ID-PCE-2016-0017), at "Dunarea de Jos" University of Galati, Romania. **team member – Mentor.** <http://www.om.ugal.ro/ROMAR/>

- 2013 - 2016: Data Assimilation Methods for improving the WAVE predictions in the Romanian nearshore of the Black Sea – DAMWAVE (PN-II-ID-PCE-2012-4-0089), at “Dunarea de Jos” University of Galati, Romania, **project responsible**.  
[http://www.im.ugal.ro/DAMWAVE/index\\_engleza.htm](http://www.im.ugal.ro/DAMWAVE/index_engleza.htm)
- 2013 - 2015: Wave predictions in the Nearshore with Data Assimilation (WANDA), research project (PTDC/ECM-HID/1896/2012), at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal, **project responsible**.
- 2014 – 2015: Present and future marine climate in the Iberian coast (CLIBECO), research project (EXPL/AAG-MAA/1001/2013), at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.
- 2010 - 2013 Wave Prediction System for Coastal Maritime Traffic and Port Approaches, **individual grant** (SFRH/BPD/65553/2009), at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.
- 2008 – 2011: NEARPORT – Development of a real-time nearshore wave prediction system for the Portuguese ports, at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.  
<http://www.mar.ist.utl.pt/nearport/en/home.aspx>
- 2007 – 2008: MARPORT – Wave Modelling Forecast System in the Portuguese Ports, at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal. <http://www.mar.ist.utl.pt/en/centec/projects.aspx?projectid=94>
- 2006 – 2008: RADMONITOR – Radar Monitoring of the Sea States at the Port of Sines, at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.
- 2004 – 2008: Wave-current Interactions in the Nearshore, **individual grant** (SFRH/BD/13176/2003), at CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.
- 2001 – 2004: MOCASSIM - Development of national competences for the implementation of oceanographic models with data assimilation, at the Hydrographic Institute of the Portuguese Navy. <http://www.hidrografico.pt/mocassim.php>

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