

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)

Address

9, Traian Street, Bl. W3, Ap. 11, 800 043 Galati (Romania)

Telephone(s)

+40 236410434

Mobile +40 745399426

E-mail(s)

liliana.rusu@ugal.ro ; lcrusu@gmail.com ; liliana.rusu@centec.tecnico.ulisboa.pt

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) http://www.hidrografico.pt/
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)
Education and training	
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, Dunarea de Jos University 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	Mechanical Engineering

<p>covered Name and type of organisation providing education and training</p>	<p>"Dunarea de Jos" University of Galati, 47, Domneasca Street, 800 008 Galati, Romania</p>																																											
<p>Personal skills and competences</p>	<ul style="list-style-type: none"> - Classical and fluid mechanics. Mathematical modeling of free-surface hydrodynamics and wave-body interaction problems using Hamiltonian approach. Water wave mechanics. - 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). - Data processing and visualization using MATLAB environment - Spectral analysis - Wave energy assessment, Wave energy extraction and its coastal impact 																																											
<p>Mother tongue(s)</p>	<p>Romanian</p>																																											
<p>Other language(s)</p>	<p>Self-assessment</p>																																											
<p>European level (*)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2"></th> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Portuguese</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> <td>C2</td> <td>Proficient user</td> </tr> <tr> <td>English</td> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> <td>C1</td> <td>Proficient user</td> </tr> <tr> <td>French</td> <td>B1</td> <td>Independent user</td> <td>B1</td> <td>Independent user</td> <td>A2</td> <td>Basic User</td> <td>A2</td> <td>Basic User</td> </tr> </tbody> </table>			Understanding		Speaking		Writing				Listening	Reading	Spoken interaction	Spoken production			Portuguese	C2	Proficient user	English	C1	Proficient user	French	B1	Independent user	B1	Independent user	A2	Basic User	A2	Basic User												
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Portuguese	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user																																				
English	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user																																				
French	B1	Independent user	B1	Independent user	A2	Basic User	A2	Basic User																																				
<p>Social skills and competences</p>	<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>Organisational skills and competences</p>	<p>Good ability to adapt to multicultural environments, gained though my work experience abroad.</p>																																											
<p>Technical skills and competences</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>																																											
<p>Computer skills and competences</p>	<p>I am currently supervising PhD students.</p>																																											
<p>Other skills and competences</p>	<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>Driving licence(s)</p>	<p>Due to my current scientific work I have special competences as regards environmental data.</p>																																											
<p>Additional information</p>	<p>very good command of Matlab - data processing and visualisation using MATLAB environment good command of Microsoft Office tools (Word, Excel and PowerPoint); good command of graphic design applications (Paint Shop Pro, Photo Shop, etc)</p>																																											
<p>Category B</p>	<p>I have a great capacity of concentration on my work and focus on the most essential issues.</p>																																											
<p>Category B</p>	<p>Membership</p> <ul style="list-style-type: none"> - Member of the marine knowledge expert group of the European Commission (2017-) https://webgate.ec.europa.eu/maritimeforum/en/node/4129 - National Ethics Council for Research Activities (2016-) http://cne.ancs.ro/membri-si-comisii/ - STSM Coordinator, WECA Net COST Action 17105 (2018-2022) https://www.wecanet.eu/ https://www.cost.eu/actions/CA17105/#tabs[Name:overview - OCEANEXPERT http://oceanexpert.org/viewMemberRecord.php?&memberID=14478 - IMAM – International Maritime Association of the Mediterranean, ART - Member of the ICACER Conference Technical Committees (2016 - Bangkok, 2018 – Barcelona, 2019 – Coimbra, 2021 - Barcelona) http://www.icacer.com/com.html - Member of the MARTECH Conference Technical Programme Committee (2020 – Lisbon, Portugal) http://www.centec.tecnico.ulisboa.pt/martech2020/structure.aspx - Member of the ICEEEP Conference Technical Committees (2021 – Barcelona, Spain) http://www.iceeep.com/index.html - Member of the REPE Conference Technical Committees (2019 – Toronto, Canada, 2020 – 																																											

Edmonton, Canada) <http://www.repe.net/com.html>

- Member of the ICPRE Conference Technical Committee (2018 – Berlin, Germany, 2019 - Chengdu, China, 2020 – Shanghai, China) <http://www.icpre.org/committee.html>
- Member of the Advisory Committee - 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG 2020), Prague, Czech Republic www.coesg.org
- International Scientific Advisory Committee, International Conference on Energy for Environmental and Economic Sustainability (2016 – Lahore) <http://iceees2016.umt.edu.pk/committees.aspx>
- Member of the Scientific Advisory Board of the 1st SDEWES Latin American Conference (2018), Rio de Janeiro, Brazilia <http://www.rio2018.sdewes.org/sab.php>; 2nd SDEWES Latin American Conference (2020), Buenos Aires, Argentina <http://www.buenosaires2020.sdewes.org/>
- Member of the Scientific Advisory Board of the 13th SDEWES Conference (2018), Palermo, Italia <http://www.palermo2018.sdewes.org/sab.php>, 14th SDEWES Conference (2019), Dubrovnik, Croatia <https://www.dubrovnik2019.sdewes.org/>, 15th SDEWES Conference (2020), Cologne, Germany <https://www.cologne2020.sdewes.org/scientific-advisory-board>
- Member of the Scientific Advisory Board of the 1st Asia Pacific SDEWES, Gold Coast, Australia <https://www.goldcoast2020.sdewes.org/>
- Member of the Advisory Committee - 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG 2020), Prague, Czech Republic www.coesg.org
- Editorial board of the journals: Earth, Civil Engineering Journal, Journal of Marine Science and Engineering (WoS indexed)
<http://www.mdpi.com/journal/jmse/editors>
<https://www.mdpi.com/journal/earth/editors>
<https://civilejournal.org/index.php/cej/about/editorialTeam>

Awards/Prizes:

- **Best paper Award 2018**, at 1st Latin american Conference on Sustainable Development of Energy, Water and Envirnoment 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
- **Prize accorded in 2015 by UEFISCDI** in the framework of PN II program, for Habilitation degree.
- **Prize accorded in 2010 and 2015 by UEFISCDI** in the framework of PN II program, for two paper (single author).
- **Prize accorded 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

- Included in: [world ranking of scientist \(2%\).xlsx](http://www.world-ranking-of-scientist.com/2015/2015-world-ranking-of-scientist.html)

Researcher ID: <http://www.researcherid.com/rid/B-6823-2011> H index = 20

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

Google: <https://scholar.google.com/citations?user=DUgsKoQAAAJ&hl=ro&oi=ao> H index = 23

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

Publons: <https://publons.com/researcher/1506682/liliana-rusu/>

Researchgate: https://www.researchgate.net/profile/Liliana_Rusu

Annexes

List of Relevant Publications and Participation to Research Projects

Ianuarie 2021

Liliana Celia Rusu



ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A1 Publications in international journals with ISI quotations

1. Rusu, L., Rusu, E., 2021. Evaluation of the Worldwide Wave Energy Distribution Based on ERA5 Data and Altimeter Measurements, *Energies* 14 (2), 394. <https://doi.org/10.3390/en14020394>
2. Chiro c , AM., Rusu, L., 2021. Comparison between Model Test and Three CFD Studies for a Benchmark Container Ship, *Journal of Marine Science and Engineering* 9 (1), 62. <https://doi.org/10.3390/jmse9010062>
3. Rusu, L., 2020. A projection of the expected wave power in the Black Sea until the end of the 21st century. *Renewable Energy*, 140, 136-147. <https://doi.org/10.1016/j.renene.2020.06.092>
4. Bernardino, M., Rusu, L., Guedes Soares, C., 2020. Evaluation of extreme storm waves in the Black Sea. *Journal of Operational Oceanography*, 1-15. <https://doi.org/10.1080/1755876X.2020.1736748>
5. Rata, V., Rusu, L., 2020. Impact on air quality of the offshore-ships operating in the Black Sea maritime borders of Romania. *Journal of Environmental Protection and Ecology*, 21(1), 19-27.
6. Zhao, Z., Mitchell, N.C., Quartau, R., Ramalho, R.S., Rusu, L., 2020. Coastal erosion rates of lava deltas around oceanic islands. *Geomorphology*, 370, p. 107410. <https://doi.org/10.1016/j.geomorph.2020.107410>
7. Ribeiro, A.S., deCastro, M., Rusu, L., Bernardino, M., Dias, J.M., Gomez-Gesteira, M., 2020. Evaluating the Future Efficiency of Wave Energy Converters along the NW Coast of the Iberian Peninsula. *Energies*, 13(14), p.3563. <https://doi.org/10.3390/en13143563>
8. 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>
9. 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>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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>
16. 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>
17. 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>
18. 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>
19. 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>
20. 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>
21. 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>
22. 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>

23. 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>

24. 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>

25. 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>

26. 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>

27. 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

28. Omer, I., Mateescu, R., Rusu, L., Niculescu, D., Vlaescanu, 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>

29. 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>

30. 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>

31. 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>

32. 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>

33. 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>

34. 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

35. 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>

36. 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>

37. 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>

38. 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>

39. 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>

40. 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/jelm.2010.33>

41. 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

42. 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_ICS2009.pdf

43. 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>

44. Rusu, E., Silva, R., Soares, C.V., Rusu, L., 2003. Wave Forecast in the Coastal Environment Affected by MV Prestige Breakdown, paper presented at the 4th 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

A2 Books

1. Rusu, L., Raileanu, A., Onea, F., 2016. Asimilarea de date cu aplicări la predicia 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 și 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
4. Matulea, I., Slamoiu, G., Popa, V., Rusu, L., Nastase, I., Oancea, G., 2007. Spectral and Probabilistic Models in Marine Technology, Publishing House of University "Dunarea 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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A6 PARTICIPATION TO RELEVANT RESEARCH PROJECTS

2020 - 2021: Sea State, ESA Climate Change Initiative, partner "Dunarea de Jos" University of Galati, Romania, **Responsabil partner**. <https://climate.esa.int/en/projects/sea-state/>

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**. <https://accwa.ugal.ro/>

2017 - 2019: Renewable Energy extraction in MARine environment and its Coastal impact - REMARC (PNIII-P4-IDPCE-2016-0017), at "Dunarea de Jos" University of Galati, Romania, **team member**. <https://remarc.ugal.ro/>

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**. <https://romar.ugal.ro/>

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**. <https://damwave.ugal.ro/>

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. **team member**

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. **team member** <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. **team member** <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. **team member**

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. **team member** <http://www.hidrografico.pt/mocassim.php>

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