

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 ; liliana.rusu@centec.tecnico.ulisboa.pt ; lcrusu@gmail.com
Nationality Romanian
Date of birth 11/01/1962
Gender Female

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>15/03/2016 →</p> <p>Professor, Department of Mechanical Engineering http://www.im.ugal.ro/AcademicStaff.htm</p> <p>Teaching and research</p> <p>“Dunarea de Jos” University of Galati, http://www.ugal.ro/ 47, Domneasca St., 800008 Galati, Romania</p> <p>Public University</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>01/10/2012 – 14/03/2016</p> <p>Associate Professor, Department of Mechanical Engineering http://www.im.ugal.ro/AcademicStaff.htm</p> <p>Teaching and research</p> <p>“Dunarea de Jos” University of Galati, http://www.ugal.ro/ 47, Domneasca St., 800008 Galati, Romania</p> <p>Public University</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>24/02/2004 – 30/09/2012</p> <p>Assistant Professor, Department of Applied Mechanics</p> <p>Teaching and research</p> <p>“Dunarea de Jos” University of Galati, http://www.ugal.ro/ 47, Domneasca St., 800008 Galati, Romania</p> <p>Public University</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>2016 →</p> <p>Professor (Collaborator), http://www.mar.ist.utl.pt/en/centec/personnel.aspx?id=1</p> <p>Scientific research focused mainly on wave modelling, renewable energy and analysis of the environmental data.</p> <p>Centre for Marine Technology and Ocean Engineering - CENTEC, University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal</p> <p>Public University – Research Centre</p>

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, 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																																		
Personal skills and competences	<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 																																		
Mother tongue(s)	Romanian																																		
Other language(s)																																			
Self-assessment <i>European level (*)</i>	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Portuguese</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>English</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>French</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>		Understanding		Speaking		Writing		Listening	Reading	Spoken interaction	Spoken production			Portuguese	C2 Proficient user	C2 Proficient user	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	C1 Proficient user	C1 Proficient user	French	B1 Independent user	B1 Independent user	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic User
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English	C1 Proficient user	C1 Proficient user	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	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																																		
Additional information	<p>Membership</p> <ul style="list-style-type: none"> - Member of the marine knowledge expert group of the European Commission https://webgate.ec.europa.eu/maritimeforum/en/node/4129 - National Ethics Council for Research Activities http://cne.ancs.ro/membri-si-comisii/ - STSM Coordinator, WECANet COST Action 17105 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) http://www.icacer.com/com.html - Member of the ICPRE Conference Technical Committee (2018 – Berlin, 2019 - Chengdu, China) http://www.icpre.org/committee.html - Advisory Committee, 2nd International Joint Conference on Clean Energy and Smart Grid (CCESG 2019) will be held in Phuket, Tailanda http://www.ccesg.org/commit.html - 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>
- Member of the Scientific Advisory Board of the 13th SDEWES Conference (2018), Palermo, Italia <http://www.palermo2018.sdewes.org/sab.php>
 - Member of the Scientific Advisory Board of the 14th SDEWES Conference (2019), Dubrovnik, Croatia <http://www.dubrovnik2019.sdewes.org/sab.php>
 - Editorial board of the journals: Renewable Energy Research, Journal of Marine Science and Engineering (indexed WoS)
<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=299>
<http://www.mdpi.com/journal/jmse/editors>

Awards/Prizes:

- **Best paper Award 2018**, at 1st 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
- **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

Researcher ID: <http://www.researcherid.com/rid/B-6823-2011> **H index = 17**

SCOPUS ID: <http://www.scopus.com/authid/detail.url?authorId=24067330300> **H index = 18**

Google: <https://scholar.google.com.br/citations?user=DUGsKoQAAAAJ&hl=ro&oi=ao> **H index = 19**

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

Researchgate: https://www.researchgate.net/profile/Liliana_Rusu/?ev=hdr_xprf

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

Annexes

List of Relevant Publications and Participation to Research Projects

ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A1 Publications in international journals with ISI quotations

1. 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), AN 924, 18 pag. <http://www.mdpi.com/2073-4441/10/7/924>
2. 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>
3. Ganea, D., Mereuta, E., Rusu, L., 2018. Estimation of the Near Future Wind Power Potential in the Black Sea. *Energies* 11(11), AN 3198, 21 pag. <https://www.mdpi.com/1996-1073/11/11/3198> <https://doi.org/10.3390/en11113198>
4. Onea, F., Rusu, L., 2018. Evaluation of Some State-Of-The-Art Wind Technologies in the Nearshore of the Black Sea. *Energies* 11(9), AN 2452, 16 pag. <https://www.mdpi.com/1996-1073/11/9/2452>
5. Rata, V., Gasparotti, C., Rusu, L., 2018. Ballast Water Management in the Black Sea's Ports. *Journal of Marine Science and Engineering* 6(2), AN 69, 10 pag. <http://www.mdpi.com/2077-1312/6/2/69>
6. 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>
7. 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>
8. 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>
9. 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>
10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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
16. 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>
17. 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>
18. 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>
19. 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>
20. 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>
21. 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>

22. 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
23. 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>
24. 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>
25. 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>
26. 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>
27. 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>
28. 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>
29. 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
30. 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
31. 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>
32. 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 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 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
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.
6. Rusu, L., Guedes Soares, C., 2015. Application of data assimilation for improving the predictions of storm conditions close to the West Iberian coast, *Towards Green Marine Technology and Transport - Guedes Soares, Dejhalla, & Pavletic (Eds.)*, CRC Press, Taylor & Francis Group, London, 795-800. <https://www.crcpress.com/Towards-Green-Marine-Technology-and-Transport/Soares-Dejhalla-Pavletic/9781138028876>
7. Răileanu, A., Rusu, L., Rusu, E., 2015. Wave modelling with data assimilation in the Romanian nearshore. *Towards Green Marine Technology and Transport - Guedes Soares, Dejhalla, & Pavletic (Eds.)*, CRC Press, Taylor & Francis Group, London, 837-843. <https://www.crcpress.com/Towards-Green-Marine-Technology-and-Transport/Soares-Dejhalla-Pavletic/9781138028876>
8. Rusu, L., Ponce de León, S., Guedes Soares, C., 2015. Numerical modelling of the North Atlantic storms affecting the West Iberian coast, *Maritime Technology and Engineering – Guedes Soares & Santos (Eds.)*, CRC Press, Taylor & Francis Group, London, Vol 2, 1365-1370. <http://www.crcpress.com/product/isbn/9781138027275>

9. Almeida, S., Rusu, L., Guedes Soares, C., 2015. Application of the Ensemble Kalman Filter to a high-resolution wave forecasting model for wave height forecast in coastal areas, *Maritime Technology and Engineering* – Guedes Soares & Santos (Eds), CRC Press, Taylor & Francis Group, London, Vol 2, 1349-1354. <http://www.crcpress.com/product/isbn/9781138027275>
10. Sohrabi, M., Rusu, L., Guedes Soares, C., 2015. Comparison of altimeter derived wave periods and significant wave heights with buoy data in the Portuguese coastal environment, *Maritime Technology and Engineering* – Guedes Soares & Santos (Eds), CRC Press, Taylor & Francis Group, London, Vol 2, 1403-1409. <http://www.crcpress.com/product/isbn/9781138027275>
11. Rusu, L., Guedes Soares, C., 2014. Forecasting containership responses in the Azores Archipelago, *Developments in Maritime Transportation and Exploitation of Sea Resources* – Guedes Soares & López Peña (eds), Taylor & Francis Group, London, Vol 2, 987-993.
12. Molina Andres, O., Castro Ruiz, F., Rusu, L., 2014. Efficiency assessments for different WEC types in the Canary Islands, *Developments in Maritime Transportation and Exploitation of Sea Resources* – Guedes Soares & López Peña (eds), Taylor & Francis Group, London, Vol 2, 879-887.
13. Rusu, L., Pilar, P., Guedes Soares, C., 2012. Modelling the Wave Condition in the Arquipelago of Azores. *Maritime Engineering and Technology*, Guedes Soares et al. (Eds), Taylor & Francis Group, London, 533-538.
14. Bernardino, M., Salvação, N., Rusu, L., 2012. Evaluation of the Wind and Wave Simulations in the Black Sea Using Satellite Altimeter Data. *Maritime Engineering and Technology*, Guedes Soares et al. (Eds), Taylor & Francis Group, London, 467-471.
15. Rusu, L., Bernardino, M., Pilar, P., Guedes Soares, C., 2011. Hindcast studies of the wave conditions on the Portuguese coast, *Marine Technology and Engineering* - Guedes Soares et al. (Eds), Taylor & Francis Group, London, Vol. I, 181-198.
16. Guedes Soares, C., Bernardino, M., Rusu, L., Pilar, P., 2008. Implementação de um Sistema de Previsão da Agitação Marítima para os Portos de Leixões e Sines, O Sector Marítimo Português, C. Guedes Soares e C. Costa Monteiro (Eds.), Salamandra, Lisbon, Portugal, 397-411 (in Portuguese).
17. Pereira, A.I.S., Rusu, L., Pilar, P., Guedes Soares, C., 2008. Distribuição Espacial da Energia das Ondas na Região de Peniche, O Sector Marítimo Português, C. Guedes Soares e C. Costa Monteiro (Eds.), Salamandra, Lisbon, Portugal, 441-458 (in Portuguese).
18. Rusu, L., Guedes Soares, C., 2008. Modelling of the wave-current interactions in the Tagus Estuary. *Maritime Industry, Ocean Engineering and Coastal Resources*, Editors Taylor & Francis, London, Vol. II, 801-810.
19. Rusu, L., Guedes Soares, C., 2006. High resolution SWAN simulations in the Tagus Estuary. *Inovação e Desenvolvimento nas Actividades Marítimas*, Salamandra Ed., Lisbon, Portugal, 503-519, (in Portuguese).
20. Rusu, L., Pilar, P., Guedes Soares, C., 2005. Reanalysis of the Wave Conditions in the Approaches to the Portuguese Port of Sines. *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Editors Taylor & Francis, London, Vol II, 1137-1142.
21. Rusu, E., Soares, C. V., Rusu, L., 2005. Computational Strategies and Visualization Techniques for the Waves Modeling in the Portuguese Nearshore, *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Editors Taylor & Francis, London, Vol II, 1129-1136.
22. Guedes Soares, C., Rusu, L., Pilar, P., 2004. Wave hindcast in the coastal environment of Portugal. *As Actividades Marítimas e a Engenharia*, Salamandra Ed., Lisbon, Portugal, 73-82, (in Portuguese)

A4 Publications in the proceedings of international conferences

1. Rusu, L., 2018. The influence of climate change on the near future wave energy resources in the Black Sea Basin. Presented at 13th *Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2018)*, 30 September – 4 October, Palermo, Italia, <http://www.palermo2018.sdewes.org/>
2. Rusu, L., 2018. Assessment of the wave climate in the Black Sea based on 30-year of wave hindcast. Presented at Coordinated Ocean Wave Climate Project (COWCLIP) meeting - UNESCO, 21 - 23 May, Paris, France. http://www.ioc-unesco.org/index.php?option=com_oe&task=viewEventAgenda&eventID=2242
3. Rusu, L., 2018. The Wave and Wind Power Potential in the Western Black Sea. Presented at 1st Latin American SDEWES conference, Rio de Janeiro, Brazil, BEAST PAPER AWARD. <http://www.rio2018.sdewes.org/programme.php>
4. Rata, V., Rusu, L., 2018. Assessing the traffic risk along the main Black Sea maritime routes. Proceeding of the Fourth International Conference on Traffic and Transport Engineering (ICTTE Belgrade 2018), 27 - 28 September, Belgrade, Serbia. (WoS indexed) http://ijtte.com/article/102/ICTTE_Belgrade_2018.html
5. Ganea, D., Mereuta, E., Rusu, L., 2018. Analysis of the present and near future wind conditions in the western side of the Black Sea. Proceeding of the 18th International Multidisciplinary Scientific GeoConference SGEM 2018 – Marine and Ocean Ecosystems, 30 June – 9 July, Albena, pp. 127-134, (WoS indexed). <https://www.sgem.org/>
6. Ganea, D., Rusu, L., Mereuta, E., 2018. Study of the winter extreme wind in the Black Sea in the context of the climate changes. Proceeding of the 18th International Multidisciplinary Scientific GeoConference SGEM 2018 – Marine and Ocean Ecosystems, 30 June – 9 July, Albena, pp. 659-665, (WoS indexed). <https://www.sgem.org/>
7. Rata, V., Rusu, L., Gasparotti, C., 2018. Analysis of the extreme events reported in the proximity of the Romanian harbour areas. Proceeding of the 18th International Multidisciplinary Scientific GeoConference SGEM 2018 – Marine and Ocean Ecosystems, 30 June – 9 July, Albena, pp. 1071-1077, (WoS indexed). <https://www.sgem.org/>

8. Raileanu, A., Onea, F., Rusu, L., 2018. Coastal Protection of the Romanian Nearshore throughout Hybrid Wave and Offshore Wind Farms. In: *Proc. of 3rd International Conference on Advances on Clean Energy Research (ICACER 2018)*, 6-8 April, Barcelona, Spain, 6-8 April, Barcelona, Spain. <https://doi.org/10.1051/e3sconf/20185101004>
9. Mateescu, R., Vlasceanu, E., Rusu, L., 2018, "Analysis-based results on the delineation of prearrangement areas for marine renewable energy installations in the western Black Sea basin". In: *Proc. of 3rd International Conference on Advances on Clean Energy Research (ICACER 2018)*, 6-8 April, Barcelona, Spain. <https://doi.org/10.1051/e3sconf/20185101009>
10. Rusu, L., 2016. Assessment of the synergy between wind and wave power in the Black Sea based on a 15-year hindcast. In: *Proc. of 11th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2016)*, 4-9 September, Lisbon, Portugal.
11. Rusu, L., 2016. Data assimilation method based on the Kalman filter associated with the wave modeling in the western Black Sea. In: *Proc. of 16th International Multidisciplinary Scientific GeoConference (SGEM2016) – Marine and Ocean Ecosystems*, June 28 - July 6, Albena, Bulgaria, Book3 Vol. 2, 727-734. <http://www.sgem.org/sgemlib/spip.php?article7936>
12. Rusu, L., 2016. Assessment of the renewable energy resources in the Romanian nearshore at the Black Sea, paper presented at *Int. Conference on Advances on Clean Energy Research (ICACER2016)*, 16-18 April, Bangkok, Thailand, <http://www.icacer.com/> **received 'Best presentation award'**.
13. Raileanu, A., Rusu, L., Rusu, E., 2016. Data assimilation methods to improve the wave predictions in the Romanian coastal environment. In: *Proc. of 16th International Multidisciplinary Scientific GeoConference (SGEM2016) – Photogrammetry and Remote Sensing*, June 28 - July 6, Albena, Bulgaria, Book2 Vol. 2, 855-862. <http://www.sgem.org/sgemlib/spip.php?article8396>
14. Modiga, A., Gasparotti, C., Rusu, L., Popescu, G., 2016. Analysis of the main operations and the characteristics of the environmental matrix at the Romanian harbors in the Black Sea. *International Conferences on Traffic and Transport Engineering (ICTTE2016)*, Belgrad, Serbia, http://www.ijtte.com/article/102/ICTTE_Belgrade_2016.html
15. Rusu, L., 2015. Wave modelling with data assimilation to evaluate the wave energy patterns in the Black Sea. In: *Proc. of 15th International Multidisciplinary Scientific GeoConference (SGEM2015) – Energy and Clean Technologies*, 16-25 June, Albena, Bulgaria, Vol. 4, 597-606. <http://www.sgem.org/SGEMLIB/spip.php?article6182>
16. Onea, F., Rusu, L., 2015. Coastal impact of a hybrid marine farm operating close to the Sardinia island. In: *Proc. of OCEAN'15 MTS/IEEE Conference - Discovering Sustainable Ocean Energy for a New World*, 18-21 May, Genova, Italy. <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7271249>
17. Rusu, L., Răileanu, A., 2015. Assimilation of satellite data to increase the reliability of the wave predictions 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/EGU2015-4816.pdf>
18. Rusu, L., 2014. A data assimilation scheme to improve the wave predictions in the western side of the Black Sea. In: *Proc. of 14th International Multidisciplinary Scientific GeoConference (SGEM2014) – Marine and Ocean Ecosystems*, 17-26 June, Albena, Bulgaria, Vol. II, 539-545. <http://dx.doi.org/10.5593/SGEM2014/B32/S15.071>
19. Rusu, L., Răileanu, A., 2014. Wave modelling to assess the storm conditions in the Black Sea. Poster presented at *European Geosciences Union General Assembly 2014 (EGU2014)*, Vol. 16, EGU2014-2140. 27 Apr–02 May, Vienna, Austria. <http://meetingorganizer.copernicus.org/EGU2014/EGU2014-2140.pdf>
20. 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>
21. Toderascu, R., Rusu, L., 2012. Study on the currents variability and patterns in the Black Sea. In: *Proc. of 12th International Multidisciplinary Scientific GeoConference (SGEM2012) – Marine and Ocean Ecosystems*, 17-23 June, Albena, Bulgaria, Vol. III, 825-832. <http://dx.doi.org/10.5593/sgem2012/s13.v3041>
22. Ivan, A., Rusu, L., Măcuță, S., 2012. Validations with experimental data of SWAN simulations for the wave propagation in the presence of strong opposite currents. In: *Proc. of 12th International Multidisciplinary Scientific GeoConference (SGEM2012)*, 17-23 June, Albena, Bulgaria, Vol. III, 1025-1032. <http://dx.doi.org/10.5593/sgem2012/s14.v3013>
23. Rusu, L., Guedes Soares, C., 2011. Evaluation of the operational forecast system implemented for the Leixões port. *7^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Porto, Portugal, 6-7 October, Ed. CD, 11p (in Portuguese).
24. Butunoiu, D., Rusu, L., 2011. Influence of the wind resolution in modeling the extreme wave conditions in the Black Sea. *International Environmental Conference - Sustainable Development in Coastal Areas*, 29 June – 1 July, Ioannina, Greece.
25. Rusu, L., Bernardino, M., Guedes Soares, C., 2010. Wave forecast at the entrance of the Tagus estuary. *Third International Conference on the Application of Physical Modelling to Port and Coastal Protection (CoastLab2010)*, 28-30 September & October 1, Barcelona, Spain, Ed. CD, 7p.
26. Rusu, L., 2010. Wave modelling in the Black Sea, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 367-372.

27. Rusu, L., Bernardino, M., Pilar, P., Guedes Soares, C., 2010. Extreme wave predictions at the entrance of the Tagus estuary. In: *Actas das 1^{as} Jornadas de Engenharia Hidrográfica*, Lisbon, 21-22 June, 25-28, (in Portuguese).
28. Bento, R., Silva, D., Rusu, L., Guedes Soares, C., 2010. Evaluation of the wave conditions off-shore of the Faro and Setúbal ports. In: *Actas das 1^{as} Jornadas de Engenharia Hidrográfica*, Lisbon, 21-22 June, 265-268, (in Portuguese).
29. Gasparotti, C., Rusu, L., 2010. Risk assessment of oil spills from Black Sea basin, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 403-408.
30. Gasparotti, C., Rusu, L., 2010. Seakeeping studies for containerships operating in the Black Sea, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 160-165.
31. Măcuța, S., Rusu, L., 2009. Modelling by finite element method of stress state establishing and experimental research regarding the elasto-plastic deformations of some steels alloys, *Proceedings of the 12th International Congress of the International Maritime Association of the Mediterranean - IMAM2009 – Towards Sustainable Marine Technology and Transport*, Istanbul, Turkey, 12-15 October, 870-896.
32. Bernardino, M., Rusu, L., Silva, D., Bento, R., Pilar, P., Guedes Soares, C., 2009. Performance evaluation of the wave prediction system implemented for the Portuguese ports. *6^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Funchal-Madeira, Portugal, 8-9 October, Ed. CD, 19p (in Portuguese).
33. Rusu, L., Bernardino, M., Guedes Soares, C., 2008. Influence of the wind fields on the accuracy of numerical wave modelling in offshore locations, *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering - OMAE2008*, ASME, Paper OMAE2008-57861, June 15-20, Estoril, Portugal, AMER Soc MECHANICAL ENG., New York, Vol. 4, 637-644.
34. Bernardino, M., Rusu, L., Guedes Soares, C., 2008. Validation of a wave forecast system for the Portuguese ports. *Proc. of the 5th European Global Ocean Observing System Conference - Coastal to Global Operational Oceanography: Achievements and Challenges (EuroGOOS2008)*, Exeter, UK, 20-22 May, Ed. CD, 8p.
35. Rusu, L., Bernardino, M., Guedes Soares, C., 2007. Wave modelling in Tagus estuary. *5^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Lisbon, Ed. CD, 14p (in Portuguese).
36. Rusu, E., Rusu, L., Guedes Soares, C., 2006. Prediction of Extreme Wave Conditions in the Black Sea with Numerical Models, *Proc. of the 9th International Workshop on Wave Hindcasting and Forecasting*, Victoria, Canada, 24 - 29 September, 11p.
<http://www.waveworkshop.org/9thWaves/>
37. Rusu, L., Pilar, P., Guedes Soares, C., 2005. Hindcasts of the Wave Conditions in Approaches to Ports of the North of Portugal, *Proc. of the Fifth International Symposium on Ocean Wave Measurement and Analysis - WAVES 2005*, 3-7 July, Madrid, Spain, Paper number 145, CD edition, 9p. <http://www.cedex.es/waves2005/>
38. Rusu, L., Măcuța, S., Rusu, E., 2005. A Mathematical Hamiltonian Model for the Wave Propagation, *Proc. of the Annual Symposium of the Institute of Solid Mechanics (SISOM 2005)*, Romanian Academy, Department of Technical Sciences, Bucharest, Romania, 19-20 May, 40-47.
http://217.73.165.147/SISOM_Papers_2005/7_D.pdf
39. Rusu, E., Măcuța, S., Rusu, L., 2005. New Hamiltonian Techniques in Marine Engineering, paper presented at the *Annual Symposium of the Institute of Solid Mechanics (SISOM 2005)*, Romanian Academy, Department of Technical Sciences, Bucharest, Romania, 19-20 May, 164-171.
http://217.73.165.147/SISOM_Papers_2005/29_D.pdf
40. Rusu, L., Pilar, P., Guedes Soares, C., 2005. Wave hindcast in the southern part of the Portuguese continental nearshore, paper presented at *4^{as} Jornadas de Engenharia Costeira e Portuária*, Azores Archipelago, Angra do Heroísmo, Portugal, 20-21 October, CD edition, 10p, (in Portuguese).
41. Rusu, E., Matulea, I., Rusu, L., 2004. Linear and Non Linear Models to Assess the Wave Induced Currents in the Nearshore, paper presented at the *Seventh International Conference on Marine Science and Technology - BlackSea2004*, 7-9 October, Varna, Bulgaria, 150-157.
42. Rusu, E., Rusu, L., Matulea, I., 2004. Prediction of the Nearshore Wave Propagation with Spectral Models, paper presented at the *Seventh International Conference on Marine Science and Technology - BlackSea2004*, 7-9 October, Varna, Bulgaria, 142-149.
43. Costa, M., Rusu, L., 2004. An extreme event analysis in the Portuguese nearshore, poster presentation, *Section Operational Oceanography, 1st EGU General Assembly*, Nice, France, 25-30 April. <http://www.cosis.net/abstracts/EGU04/03382/EGU04-J-03382.pdf>
44. 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, *3^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Aveiro 13-14 November, 15p, CD edition.
45. Costa, M., Baptista, B., Rusu, L., 2003. Vinte Anos de Dados de Agitação Marítima na Costa Portuguesa, *3^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Aveiro, Portugal, 13-14 November, 12p, CD edition.
46. Rusu, E., Silva, R., Pinto, J.P., Rusu, L., Soares, C.V., Vitorino, J., 2003. Assessment and Prediction of the Nearshore Wave Propagation in the Case of M/V Prestige Accident, *Section Operational Oceanography, The Joint Assembly EGS-AGU-EUG*, Nice, France, 7-11 April.
<http://cosis.net/abstracts/EAE03/07016/EAE03-J-07016.pdf>

A5 Publications in Romanian Journals

1. Rață, V., Gasparotti, C., Rusu, L., 2017. The Importance of the Reduction of Air Pollution in the Black Sea Basin, *Journal of Mechanical Testing and Diagnosis*, Volume 2, 5-15. http://www.im.ugal.ro/mtd/download/2017-2/1_MTD_Volume%202_2017%20Rata%20Rusu.pdf

2. Zanol, A.T., Onea, F., Rusu, L., 2014. Experimental results to evaluate the wave and currents conditions in the Romanian nearshore. *Constanta Maritime University Annals - An XV, Vol. 21-2014, Sect. I, 71-78* (indexată BDI). http://www.cmu-edu.eu/anale/anale_engleza/anale.html
3. Zanol, A.T., Onea, F., Rusu, L., 2013. Evolution of the Romanian nearshore currents under the influence of WEC farms. *Mechanical Testing and Diagnosis*, Volume 4, 13-20.
4. Gasparotti, C., Rusu, L., 2013. Seakeeping performance assessment for a containership in a specific sea area. *Mechanical Testing and Diagnosis*, Volume 1, 38-48.
5. Onea, F., Rusu, L., 2013. Influence of a hybrid wave-wind farm on the Romanian coastal area. *Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year V(XXXVI) 2013, No. 2, 146-152 (B+)* http://www.phys.ugal.ro/Annals_Fascicle_2/
6. Rusu, L., Gasparotti, C., 2010. A Hamiltonian representation of surface waves. *The Annals of the Dunarea de Jos University of Galati, Fascicle II, Mathematics, Physics, Theoretical Mechanics, No.2, 227-241.* http://www.phys.ugal.ro/Annals_Fascicle_2/Year2010/index2.htm
7. Toderascu, R., Rusu, L., Lucas, C., 2010. A Lagrangian Approach for the Wave Body Interactions Problem. *The Annals of "Dunarea de Jos" University of Galati, Fascicle X, Applied Mechanics, No. 1.* <http://www.mrm.ugal.ro/AnnalsAbstracts/2010/A-2.pdf>
8. Toderascu, R., Rusu, L., 2010. Some features of the MOHID Water Modelling System and on the reliability of such model for the Black Sea basin. *The Annals of "Dunarea de Jos" University of Galati, Fascicle X, Applied Mechanics, No. 2.* <http://www.mrm.ugal.ro/AnnalsAbstracts/2010I2/1%20RToderascu%20LRusu.pdf>
9. Rusu, L., Bernardino, M., 2009. Estimation of the operability index of a containership operating in Black Sea. *The Annals of "Dunarea de Jos" University of Galati, Fascicle VIII, Tribology, No. 2.* <http://www.om.ugal.ro/AnnalsFasc8Tribology/index.htm>
10. Tudorascu, R., Rusu, L., Lucas, C., 2009. Wave Propagation in the Black Sea Marine Environment. *The Annals of Dunarea de Jos University of Galati, Fascicle X, Applied Mechanics, 97-106.* <http://www.mrm.ugal.ro/AnnalsAbstracts/2009/LL-5.pdf>
11. Rusu, L., 2008. New Validations for the Wave Prediction System Implemented in the Black Sea Basin, *12th International Symposium of Experimental Stress Analysis and Testing of Materials (ARTENS2008)*, published in *The Annals of Dunarea de Jos Galati University, Fascicle XIV, Mechanical Engineering, 85-90.* <http://md1.csa.com>
12. Rusu, L., 2008. Application of the Canonical Perturbation Theory to Model the Free Surface Hydrodynamics, *12th International Symposium of Experimental Stress Analysis and Testing of Materials (ARTENS2008)*, published in *The Annals of Dunarea de Jos Galati University, Fascicle XIV, Mechanical Engineering,, 91-94.* <http://md1.csa.com>
13. Rusu, L., 2008. Analysis of the Wave-Current Interactions in an Offshore Basin. *The Annals of Dunarea de Jos Galati University, Fascicle X, Applied Mechanics, 101-106.* http://www.mrm.ugal.ro/AnnalsAbstracts/2008/17_LRusu_anale2008.pdf
14. Rusu, L., Ponce, S., 2007. On the Performances of the Third Generation Spectral Wave Models in the Black Sea. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 23-32.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/4-LRusu_anale2007.pdf
15. Muşat, S., Rusu, L., 2007. Study of Torsion in the Systems with Ramifications for Transmitting the Rotation Motion. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 17-22.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/2-Musat_anale2007.pdf
16. Muşat, S., Rusu, L., 2007. Lagrange Equations with Multipliers for the Rigid Body. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 11-17.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/2-Musat_anale2007.pdf
17. Rusu, L., 2006. Numerical Simulations to Estimate the Propagation of an Accidental Oil Spillage in the Black Sea Nearshore. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 43-48.*
18. Rusu, E., Rusu, L., 2006. Development of an Operational Wave Prediction System to Assess the Wave Propagation in the Black Sea. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 33-42.*
19. Rusu, L., 2005. Hamilton's Dissipative Equations of Water-Waves. *The Annals of Dunarea de Jos University of Galati, Fascicle II Mathematics, Physics, Theoretical Mechanics, 5-12.*
20. Rusu, L., Matulea, I., 2005. Generalized Canonical Equations of Water Waves. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 15-20.*
21. Muşat, S., Rusu, L., 2005. Actualisation of Positions and Orientation of the Rigid Body in the Incremental Analysis of the Displacements. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 17-20.*
22. Rusu, L., 2004. A High-Resolution Wave Model Derived With the Hamiltonian Approach. *The Annals of Dunarea de Jos University of Galati, Fascicle II Mathematics, Physics, Theoretical Mechanics, 29-40.* <http://md1.csa.com>
23. Rusu, L., 2004. Numerical Methods for Solving the Kinematical Subproblem of Water-Waves. *The Annals of Dunarea de Jos University of Galati, Fascicle II Mathematics, Physics, Theoretical Mechanics, 41-50.* <http://md1.csa.com>

24. Muşat, S., Rusu, L., 2004. Aspects Concerning the Vibrations of Linear Gyroscopic Systems. *The Annals of Dunarea de Jos University of Galati*, Fascicle X Applied Mechanics, 21-24.
25. Muşat, S., Rusu, L., 2004. Numerical Approach in the Mechanics of Non Linear Vibrations. *The Annals of Dunarea de Jos University of Galati*, Fascicle X Applied Mechanics, 15-20.
26. Rusu, L., Matulea, I., 2003. A Method to Estimate the Surf Conditions. *The Annals of Dunarea de Jos University of Galati*, Fascicle X Applied Mechanics, 23-28.

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
- 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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