Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Liliana Celia Rusu**
Address	
Telephone(s)	
E-mail(s)	liliana.rusu@ugal.ro
Nationality	Romanian / Portuguese
Date of birth	
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.centec.tecnico.ulisboa.pt/en/centec/collaborators.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: *Engineering applications with spectral phase averaged wave models*
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: *Wave modelling and ship response in coastal waters with currents*
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: *Researches and contributions to the spectral and Hamiltonian models applied to study wave dynamics*
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

- 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	Understanding			Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production		
Portuguese	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
French	B1	Independent user	B1	Independent user	A2	Basic User	A2	Basic User	A2	Basic User

Social skills and competences

Team work: I have worked in various research teams and most of my major publications were resulted from working in a team.
Good ability to adapt to multicultural environments, gained though my work experience abroad.
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.

Organisational skills and competences

I am currently supervising PhD students.

Technical skills and competences

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.
Due to my current scientific work I have special competences as regards environmental data.

Computer skills and competences

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)

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

Membership

- Member of the marine knowledge expert group of the European Commission (2017-) https://webgate.ec.europa.eu/maritimeforum/en/node/4129
- Member of the National Ethics Council for Research Activities (2016-) https://cnecsdti.research.gov.ro/membri-si-comisii/
- STSM Coordinator, WECANet 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, 2022, 2024 – Lisbon, Portugal) http://www.centec.tecnico.ulisboa.pt/martech2024/index.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 Conferences Technical Committee http://www.icpre.org/committee.html
- Member of the Scientific Advisory Board of the Latin American SDEWES Conferences, SDEWES Conferences, Asia Pacific SDEWES Conferences, SEE SDEWES Conferences https://www.sdewes.org/
- Member of the Advisory Committee of the International Joint Conferences on Clean Energy and Smart Grid (CCESG) www.ccesg.org
- Editorial board of the journals: Earth (2019-2022), Civil Engineering Journal (WoS indexed), Journal of Marine Science and Engineering (WoS indexed), Journal of Ocean Engineering and Marine Energy (WoS indexed).

http://www.mdpi.com/journal/jmse/editors

https://www.mdpi.com/journal/earth/editors

https://civilejournal.org/index.php/cej/about/editorialTeam

https://www.springer.com/journal/40722/editors

Awards/Prizes:

- **Best paper Award 2018,** at 1st Latin americam Conference on Sustainable Development of Energy, Water and Envinroment 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 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
- Included by Stanford University in: https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6

WoS: https://www.webofscience.com/wos/author/record/1209224 **H index = 25**

SCOPUS ID: http://www.scopus.com/authid/detail.url?authorId=24067330300 **H index = 26**

Google: https://scholar.google.com/citations?user=DUgsKoQAAAAJ&hl=ro&oi=ao **H index = 29**

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

Brain map: https://www.brainmap.ro/liliana-celia-rusu

Annexes

List of Relevant Publications and Participation to Research Projects

March 2024

Liliana Celia Rusu

ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A1 Publications in international journals with ISI quotations

1. Rusu, L., 2024. An analysis of the environmental matrix in the Adriatic Sea – past and future projections, *J.sustain. dev. energy water environ. syst.*, 12(2), 1110480. https://doi.org/10.13044/j.sdewes.d11.0480, https://www.sdewes.org/jsdewes/pid11.0480
2. Mandru, A., Rusu, L., Bekhit, A., Pacuraru, F., 2024. Numerical Study of a Model and Full-Scale Container Ship Sailing in Regular Head Waves. *Inventions*, *9*(1), p.22. https://doi.org/10.3390/inventions9010022
3. deCastro, M., Rusu, L., Pérez, B.A., Ribeiro, A., Costoya, X., Carvalho, D. and Gomez-Gesteira, M., Different Approaches to Analyze the Impact of Future Climate Change on the Exploitation of Wave Energy. *Renewable Energy*, 220, 119569. https://doi.org/10.1016/j.renene.2023.119569
4. Rusu, L., 2023. An evaluation of the synergy between the wave and wind energy along the west Iberian nearshore. *Energy Conversion and Management: X*, 20, p.100453. https://doi.org/10.1016/j.ecmx.2023.100453
5. Rusu, L., Stratigaki, V., 2023. Offshore Renewables for a Transition to a Low Carbon Society. *Journal of Marine Science and Engineering*, 11(6), p.1185. https://doi.org/10.3390/jmse11061185
6. Chirosca, A.M., Medina, A., Pacuraru, F., Saettone, S., Rusu, L., Pacuraru, S., 2023. Experimental and Numerical Investigation of the Added Resistance in Regular Head Waves for the DTC Hull. *Journal of Marine Science and Engineering*, 11(4), p.852. https://doi.org/10.3390/jmse11040852
7. Răileanu, A.B., Rusu, L., Rusu, E., 2023. An Evaluation of the Dynamics of Some Meteorological and Hydrological Processes along the Lower Danube. *Sustainability*, 15(7), p.6087. https://doi.org/10.3390/su15076087
8. Manolache, A.I., Andrei, G. and Rusu, L., 2023. An Evaluation of the Efficiency of the Floating Solar Panels in the Western Black Sea and the Razim-Sinoe Lagunar System. *Journal of Marine Science and Engineering*, 11(1), p.203. https://doi.org/10.3390/jmse11010203
9. Magkouris, A., Rusu, E., Rusu, L, Belibassakis, K., 2023. Floating Solar Systems with Application to Nearshore Sites in the Greek Sea Region. *Journal of Marine Science and Engineering*, 11(4), p.722. https://www.mdpi.com/2077-1312/11/4/722
10. Rusu, L., 2022. The near future expected wave power in the coastal environment of the Iberian Peninsula. *Renewable Energy*, 195, 657-669. https://doi.org/10.1016/j.renene.2022.06.047
11. Chirosca, A.M., Rusu, L., 2022. Characteristics of the Wind and Wave Climate along the European Seas Focusing on the Main Maritime Routes. *Journal of Marine Science and Engineering*, 10(1), p.75. https://doi.org/10.3390/jmse10010075
12. Arguilé-Pérez, B., Ribeiro, A.S., Costoya, X., deCastro, M., Carracedo, P., Dias, J.M., Rusu, L. and Gómez-Gesteira, M., 2022. Harnessing of Different WECs to Harvest Wave Energy along the Galician Coast (NW Spain). *Journal of Marine Science and Engineering*, 10(6), p.719. https://doi.org/10.3390/jmse10060719
13. Chang, Y.C., Mitchell, N., Quartau, R., Hübscher, C., Rusu, L., Tempera, F., 2022. Asymmetric abundances of submarine sediment waves around the Azores volcanic islands. *Marine Geology*, 449, p.106837. https://doi.org/10.1016/j.margeo.2022.106837
14. Zhao, Z., Mitchell, N.C., Quartau, R., Moreira, S., Rusu, L., Melo, C.S., Ávila, S.P., Das, D., Afonso, P., Pombo, J. and Duarte, J., 2022. Wave-influenced deposition of carbonate-rich sediment on the insular shelf of Santa Maria Island, Azores. *Sedimentology*. https://doi.org/10.1111/sed.12963
15. Chirosca, A.M., Rusu, L., Bleoju, A., 2022. Study on wind farms in the North Sea area. *Energy Reports*, *8*, pp.162-168. https://doi.org/10.1016/j.egyr.2022.10.244
16. Diaconita, A.I., Andrei, G. and Rusu, L., 2022. An overview of the offshore wind energy potential for twelve significant geographical locations across the globe. *Energy Reports*, *8*, pp.194-201. https://doi.org/10.1016/j.egyr.2022.10.193
17. Mihai, V. and Rusu, L., 2022. Improving the Ventilation of Machinery Spaces with Direct Adiabatic Cooling System. *Inventions*, *7*(3), p.78. https://doi.org/10.3390/inventions7030078
18. 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
19. Rusu, L., Onea, F., Rusu, E., 2021. The Expected Impact of Marine Energy Farms Operating in Island Environments with Mild Wave Energy Resources - A Case Study in the Mediterranean Sea, *Inventions*, 6(2), 33. https://doi.org/10.3390/inventions6020033
20. Rusu, E., Rusu, L., 2021. An evaluation of the wave energy resources in the proximity of the wind farms operating in the North Sea, *Energy Reports*, 7, 19-27. https://doi.org/10.1016/j.egyr.2021.05.058
21. Bernardino, M., Rusu, L., Guedes Soares, C., 2021. Evaluation of extreme storm waves in the Black Sea. *Journal of Operational Oceanography*, 14(2), 114-128. https://doi.org/10.1080/1755876X.2020.1736748
22. Ribeiro, A.S., deCastro, M., Costoya, X., Rusu, L., Dias, J.M., Gomez-Gesteira, M., 2021. A Delphi method to classify wave energy resource for the 21st century: Application to the NW Iberian Peninsula. *Energy*, 235, 121396. https://doi.org/10.1016/j.energy.2021.121396

23. Mihai, V., Rusu, L., 2021. An Overview of the Ship Ventilation Systems and Measures to Avoid the Spread of Diseases. *Inventions*, 6(3), 55. https://doi.org/10.3390/inventions6030055

24. Diaconita, A., Andrei, G., Rusu, L., 2021. New insights into the wind energy potential of the west Black Sea area based on the North Sea wind farms model. *Energy Reports*, 7, 112-118. https://doi.org/10.1016/j.egyr.2021.06.018

25. Diaconita, A., Rusu, L., Andrei, G., 2021. A Local Perspective on Wind Energy Potential in Six Reference Sites on the Western Coast of the Black Sea Considering Five Different Types of Wind Turbines. *Inventions*, 6(3), 44. https://doi.org/10.3390/inventions6030044

26. Onea, F., Rusu, E., Rusu, L., 2021. Assessment of the OffshoreWind Energy Potential in the Romanian Exclusive Economic Zone. *Inventions*, 9(5), 531. https://doi.org/10.3390/jmse9050531

27. Onea, F., Rusu, L., Carp, G.B., Rusu, E., 2021. Wave farms impact on the coastal processes - A case study area in the portuguese nearshore, *Journal of Marine Science and Engineering* 9(3), 262. https://doi.org/10.3390/jmse9030262

28. Chiroşcă, 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

29. Rusu, L., 2020. A projection of the expected wave power in the Black Sea until the end of the 21st century. *Renewable Energy*, 160, 136-147. https://doi.org/10.1016/j.renene.2020.06.092

30. 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.

31. 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

32. 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

33. 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

34. 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

35. 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

36. 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

37. 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

38. 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

39. 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

40. 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

41. 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

42. 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

43. 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

44. 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

45. 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

46. 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

47. 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

48. 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

49. 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

50. 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

51. 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

52. 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

53. 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

54. 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. https://doi.org/10.1080/1755876X.2014.11020158

55. 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

56. 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

57. 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

58. 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

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65. 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

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A5 Publications in Romanian Journals (selection)

1. Rusu, L., 2022. A MATLAB toolbox for analysis of the environmental matrix in open seas and coastal areas, *Journal of Engineering Sciences and Innovation*, Volume 7, Issue 3, pp. 349-362 https://jesi.astr.ro/wp-content/uploads/2022/10/7_Liliana-Rusu.pdf

2. Mihai, V., Rusu, L. and Presură, A., 2022. Main requirements for ventilation of different rooms on the ships. *Annals of" Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding*, *45*, pp.21-30. https://doi.org/10.35219/AnnUgalShipBuilding/2022.45.03

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5. Chirosca, A., Rusu, L., 2020. Statistical analysis of the types of ships that have crossed the European ports in the last decade. 20th SGEM International Scientific Conferences on Earth & Planetary Sciences, Extended Scientific Sessions „GREEN SCIENCE FOR GREEN LIFE" SGEM Vienna GREEN 8-11 December, 2020.

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10. 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

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34. 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.
35. 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

2023 – 2026: Climate Change Initiative - Sea State Phase 2, , partner "Dunarea de Jos" University of Galati, Romania, **Responsabil partner.**

2022 - 2024: CLimate change IMpact Evaluation on future WAve conditions at Regional scale for the Black and Mediterranean seas marine system – CLIMEWAR (PN-III-P4-PCE-2021-0015), at "Dunarea de Jos" University of Galati, Romania, **project responsible**

2021 - 2023: Dynamics of the REsources and technological Advance in harvesting Marine renewable energy – DREAM (PN-III-P4-ID-PCE-2020-0008), at "Dunarea de Jos" University of Galati, Romania, **team member** https://dream.ugal.ro/

2020 - 2021: Climate Change Initiative - Sea State Phase 1, partner "Dunarea de Jos" University of Galati, Romania, **Responsabil partner**. https://climate.esa.int/en/projects/sea-state/

2018 – 2023: WECANet COST Action CA17105 - A pan-European Network for Marine Renewable Energy with a Focus on Wave Energy, https://www.wecanet.eu/, Member of the Management Committee representing Romania, elected **Core Group member** - Short Term Scientific Missions (STSM) Coordinator, https://www.wecanet.eu/core-group

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 (PN-III-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

March 2024 **Liliana Celia Rusu**