Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**RUSU, Liliana Celia**
Adresă(e)	
Telefon(oane)	Personal: Mobil:
Fax(uri)	
E-mail(uri)	liliana.rusu@ugal.ro
Naţionalitate(-tăţi)	Română / Portugheză
Data naşterii	

Experienţa profesională

Perioada	Martie 2016 - prezent
Funcţia sau postul ocupat	Profesor, Departamentul de Inginerie Mecanică http://www.im.ugal.ro/AcademicStaff.htm
Activităţi şi responsabilităţi principale	Cadru didactic, predare cursuri de: Mecanică, Modelări numerice în mecanica fluidelor, Modelare, simulare în dinamica sistemelor mecanice; Conducător de doctorat.
Numele şi adresa angajatorului	Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 800008 Galaţi, România
Tipul activităţii sau sectorul de activitate	Activitate didactică şi de cercetare în universitate publică;
Perioada	Octombrie 2012 - Martie 2016
Funcţia sau postul ocupat	Conferenţiar, Departamentul de Inginerie Mecanică http://www.im.ugal.ro/AcademicStaff.htm
Activităţi şi responsabilităţi principale	Cadru didactic, predare cursuri la programe de licenţă şi master, îndrumare proiecte licenţă şi master. Predare cursuri de: Mecanică, Modelări numerice în mecanica fluidelor, Modelarea proceselor hidrodinamice, Modelarea fenomenelor termice si hidrodinamice, Modelare, simulare în dinamica sistemelor mecanice.
Numele şi adresa angajatorului	Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 800008 Galaţi, România
Tipul activităţii sau sectorul de activitate	Activitate didactică şi de cercetare în universitate publică
Perioada	Februarie 2004 – Octombrie 2012
Funcţia sau postul ocupat	Şef Lucrări, Departamentul de Mecanică Aplicată
Activităţi şi responsabilităţi principale	Cadru didactic, predare cursuri la programe de licenţă şi master, îndrumare proiecte licenţă şi master
Numele şi adresa angajatorului	Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 800008 Galaţi, România
Tipul activităţii sau sectorul de activitate	Activitate didactică şi de cercetare în universitate publică
Perioada	2016 - prezent
Funcţia sau postul ocupat	Profesor colaborator http://www.centec.tecnico.ulisboa.pt/en/centec/collaborators.aspx?id=1
Activităţi şi responsabilităţi principale	Colaborare în activități de cercetare: modelare valuri, analiză date, influența schimbărilor climatice asupa valurilor, evaluarea energiei valurilor și vântului, dezvoltare sistem operaţional de previziune a valurilor, etc.
Numele şi adresa angajatorului	Centre for Marine Technology and Ocean Engineering - CENTEC, Technical University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Tipul activităţii sau sectorul de activitate	Universitate publică – Centru de cercetare

Perioada	2001 - 2004
Funcţia sau postul ocupat	Cercetător
Activităţi şi responsabilităţi principale	Procesare şi analiză statistică a datelor înregistrate de reţeaua de balize a IH. Analiza evenimentelor extreme şi modelare numerică.
Numele şi adresa angajatorului	Instituto Hidrográfico - IH (Hydrographical Institute of the Portuguese Navy), 49, Rua das Trinas Street, 1249-093 Lisbon, Portugal
Tipul activităţii sau sectorul de activitate	Militar şi Cercetare
Perioada	1985 - 2001
Funcţia sau postul ocupat	Inginer
Activităţi şi responsabilităţi principale	Tehnologie şi proiectare
Numele şi adresa angajatorului	Şantierul naval DAMEN, Galaţi
Tipul activităţii sau sectorul de activitate	Construcţii şi reparaţii nave

Educaţie şi formare

Perioada	2015
Calificarea / diploma obţinută	Abilitare
Disciplinele principale studiate / competenţe profesionale dobândite	Titlul tezei: *Engineering applications with spectral phase averaged wave models*
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 800008 Galaţi, România
Perioada	2010 - 2016
Calificarea / diploma obţinută	Specializări Post-doctorale
Disciplinele principale studiate / competenţe profesionale dobândite	Asimilarea de date pentru predicţia valurilor în zone regionale Dezvoltarea unui sistem comun pentru previziunea valurilor şi evaluarea performanţelor la seakeeping ale navelor
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Centre for Marine Technology and Engineering - CENTEC, Technical University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Perioada	2004 - 2009
Calificarea / diploma obţinută	Doctor în domeniul Ştiinţe Inginereşti – Arhitectură Navală şi Inginerie Marină
Disciplinele principale studiate / competenţe profesionale dobândite	Studii privind modelarea valurilor în zonele costiere şi efectul curenţilor asupra valurilor, dinamica navei în valuri. Titlul tezei: *Wave modelling and ship response in coastal waters with currents*
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Technical University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Perioada	2002 - 2006
Calificarea / diploma obţinută	Doctor în domeniul Ştiinţe Inginereşti - Inginerie Mecanică
Disciplinele principale studiate / competenţe profesionale dobândite	Modelarea proceselor hidrodinamice, hidrodinamica fluidului cu suprafaţă liberă Titlul tezei: *Cercetări si contribuţii privind modelele spectrale si hamiltoniene aplicate în studiul dinamicii valurilor*
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 80008 Galaţi, România
Perioada	1980-1985
Calificarea / diploma obţinută	Diplomă de Inginer, specializarea Tehnologia Construcţiilor de Maşini
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Facultatea de Mecanică, Universitatea 'Dunărea de Jos' din Galaţi, Str. Domnească Nr. 47, 80008 Galaţi, România

Domenii de competenţă

- Mecanica Solidelor, Mecanica Fluidelor, Metode Numerice în Mecanica Fluidelor, Modelarea Proceselor Hidrodinamice, Hidrodinamica fluidului cu suprafaţă liberă, interacţiunea val-corp.
- Previziunea climatului de val în zonele costiere; Analize climatologice; Generarea şi propagarea valurilor marine în apropierea ţărmului, interacţiunea dintre valuri şi curenţi: modelare matematică, simulări; Evaluarea energiei valurilor şi vântului;

Limba maternă	Română
Limba(i) străină(e) cunoscută(e)	

Autoevaluare

Nivel european (*)	Înţelegere				Vorbire				Scriere	
	Ascultare		Citire		Participare la conversaţie		Discurs oral		Exprimare scrisă	
Portugheză	C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat
Engleză	C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat
Franceză	B1	Util. independent	B1	Util. independent	A2	Util. elementar	A2	Util. elementar	A2	Util. elementar

(*) Cadrul european de referinţă pentru limbi

Competenţe şi abilităţi sociale

- Experienţă de lucru în echipă: am lucrat în diverse echipe de cercetare şi majoritatea publicaţiilor mele majore au fost realizate în echipă.
- Abilitate bună de adaptare la medii multiculturale câştigată datorită experienţei mele de lucru în străinătate. Am desfăşurat activitate de cercetare ştiinţifică într-un centru de cercetare de prestigiu din Portugalia în care activează cercetători şi studenţi din diverse ţări ale lumii.
- Capacitate bună de comunicare: în primul rând sunt cadru didactic şi trebuie sa comunic cu grupe de studenţi (serii între 20 şi 100 de studenţi), deci comunicarea interumană este întrucâtva meseria mea. De asemenea am experienţă în participarea la manifestări internaţionale, am prezentat lucrări ştiinţifice în diverse ţări, precum: Australia, Austria, Brazilia, Bulgaria, Croaţia, Emiratele Arabe Unite (Dubai), Franţa, Grecia, Italia, Letonia, Portugalia, România, Spania, Tailanda, Turcia.

Competenţe şi aptitudini organizatorice

Coordonare studenţi atât în România cât şi în Portugalia; Am coordonat activitatea de implementare operaţională a sistemului de modelarea a valurilor cu modelul SWAN în cadrul proiectului MARPORT, CENTEC, Portugalia

Competenţe şi aptitudini tehnice

Utilizarea instrumentelor multimedia în activităţile de predare; Elaborarea de noi cursuri şi prezentarea de lucrări ştiinţifice la diferite conferinţe internaţionale; Simulări cu modele numerice.

Competenţe şi aptitudini de utilizare a calculatorului

Competenţe în utilizarea Microsoft Office tools (Word, Excel, PowerPoint)
Competenţe în utilizarea softurilor grafice (Paint Shop Pro, Photo Shop)
Cunoştinţe avansate în utilizarea limbajului de programare Matlab
Multimedia, Internet, Sisteme de operare Windows şi Linux

Permis(e) de conducere

Categoria B

Informaţii suplimentare

Membru în asociații / comitete:
- Membru asociat al Academiei de Științe Tehnice din România, Secția Mecanică Tehnică (2022-prezent) https://astr.ro/sectii/mecanica-tehnica/
- Membru al Marine knowledge expert group of the European Commission (2017-prezent) https://webgate.ec.europa.eu/maritimeforum/en/node/4129
- Membru al Consiliului Naţional de Etică a Cercetării Ştiinţifice, Dezvoltării Tehnologice şi Inovării (2016-prezent) https://cnecsdti.research.gov.ro/membri-si-comisii/
- Short Term Scientific Missions (STSM) Coordinator, WECANet COST Action 17105 (2018-2023) https://www.wecanet.eu/ https://www.cost.eu/actions/CA17105/#tabs|Name:overview
- Membru în Comisia CNATDCU de Inginerie Aerospaţială, Autovehicule şi Transporturi (2017-2020) http://www.cnatdcu.ro/paneluri-cnatdcu/incepand-cu-data-de-7-septembrie-2012/stiinte-ingineresti/comisia-de-inginerie-aerospatiala-autovehicule-si-transporturi/
- OCEANEXPERT http://oceanexpert.org/viewMemberRecord.php?&memberID=14478
- IMAM – International Maritime Association of the Mediterranean
- Member of the ICACER Conference Technical Committees, începând din anul 2016 http://www.icacer.com/com.html
- Member of the MARTECH Conference Technical Programme Committee (2020, 2022, 2024) http://www.centec.tecnico.ulisboa.pt/martech2020/structure.aspx
- Member of the ICEEEP Conference Technical Committees, începând din anul 2021 http://www.iceeep.com/index.html
- Member of the REPE Conference Technical Committees, începând din anul 2019 http://www.repe.net/com.html
- Member of the ICPRE Conference Technical Committee, începând din anul 2018 http://www.icpre.org/committee.html
- Member of the Advisory Committee of the International Joint Conferences on Clean Energy and Smart Grid (CCESG), începând din anul 2020 www.ccesg.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 1st Asia Pacific SDEWES, Gold Coast, Australia https://www.goldcoast2020.sdewes.org/, 2nd Asia Pacific SDEWES, Gold Coast, Australia (2024) https://www.goldcoast2024.sdewes.org/scientific-advisory-board
- Member of the Scientific Advisory Board of the SDEWES Conferences, începând din anul 2018 https://www.sdewes.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

Diplome/Premii:

- **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 Paper Award 2014**, Recognition for acting as first author on a top cited paper, acordat de Elsevier și jurnalul *Renewable Energy*.

  https://www.researchgate.net/publication/281279053_RENE_Best_Paper_Award_Rusu_Liliana
- **Premiul acordat în 2015 de UEFISCDI** în cadrul programului PN II pentru obţinerea atestatului de abilitare
- **Premii acordate de UEFISCDI** în cadrul programului PN **II** pentru articole ştiinţifice**: 2010 și 2015** (autor unic), **în 2015, 2019, 2020, 2021, 2023 (**articol ştiinţific, autor unic).
- **Diploma 'Anghel Saligny'** pentru rezultate de excelenţă în funcţia didactică de conferenţiar, acordată de Consiliul Facultăţii de Inginerie, în anii 2013, 2014, 2015.
- **Best oral presentation of Session 2,** International Conference on Advances on Clean Energy Research – ICACER2016. http://www.icacer.com/his.html
- Inclusă în ***Top World Ranking of Scientists 2%*** (pentru întreaga carieră, cât și pentru activitatea științifică din anul 2022), clasament realizat de Universitatea Stanford, împreună cu Editura Elsevier and SciTech Strategies, https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6 publicat în Octombrie 2023. Inclusă în acest clasament în toți anii de la inițierea lui în 2019.

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**

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

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

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

Articol presă http://www.viata-libera.ro/prima-pagina/77150-performante-universitare-internationale-o-familie-de-specialisti-galateni-studiaza-valurile; https://stirileprotv.ro/educatie/doi-profesori-din-galati-in-topul-celor-mai-importanti-oameni-de-stiinta-din-lume.html

https://stirileprotv.ro/educatie/doi-profesori-din-galati-in-topul-celor-mai-importanti-oameni-de-stiinta-din-lume.html

Anexe Lista lucrărilor şi proiectelor

Martie 2024

Liliana Celia Rusu

ANEXĂ

LISTA LUCRĂRILOR ŞTIINŢIFICE

A1 Lucrări publicate in reviste cotate ISI

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
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A6 Participări la proiecte de cercetare

2023 – 2026: Climate Change Initiative- Sea State Phase 2, Proiect de cercetare finanțat de Agenția Spațială Europeană (ESA), partener Universitatea "Dunarea de Jos" din Galați, **Responsabil partener.**

2022 - 2024: CLimate change IMpact Evaluation on future WAve conditions at Regional scale for the Black and Mediterranean seas marine system – CLIMEWAR (Evaluarea impactului schimbărilor climatice asupra viitoarelor condiții de val, la scară regională pentru sistemul marin al Mării Negre și Mediterane), Proiect de Cercetarea Exploratorie finanțat de UEFISCDI, cod PN-III-P4-PCE-2021-0015, Universitatea 'Dunărea de Jos' din Galaţi, Romania. **Director proiect** https://climewar.ugal.ro/public/

2021 - 2023: Dynamics of the REsources and technological Advance in harvesting Marine renewable energy – DREAM (Dinamica REsurselor și Avansul tehnologic în extragerea energiei regenerabile din mediul Marin), Proiect de Cercetarea Exploratorie finanțat de UEFISCDI, cod PN-III-P4-ID-PCE-2020-0008, Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Membru în echipă** https://dream.ugal.ro/

2020 - 2021: Climate Change Initiative- Sea State Phase 1, Proiect de cercetare finanțat de Agenția Spațială Europeană (ESA), partener Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Responsabil partener**. 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/, Membru în Comitetul de Management al Acțiunii ca reprezentant al României, ales ca membru în **Core Group - Coordonator al Short Term Scientific Missions** (STSM), https://www.wecanet.eu/core-group

2018 - 2020: Renewable Energy extraction in MARine environment and its Coastal impact – ROMAR (Soluţii pentru utilizarea energiei regenerabile din zona litoralului Românesc), Proiecte de cercetare postdoctorală finanțat de UEFISCDI, cod PN-III-P4-ID-PCE-2016-0017), Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Mentor**. https://romar.ugal.ro/

2017 - 2019: Assessment of the Climate Change effects on the WAve conditions in the Black Sea – ACCWA (Evaluarea efectelor produse de schimbările climatice asupra condițiilor de val din Marea Neagră), Proiect de Cercetarea Exploratorie finanțat de UEFISCDI, cod PN-III-P4-IDPCE-2016-0028, Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Director proiect**. https://accwa.ugal.ro/

2017 - 2019: Renewable Energy extraction in MARine environment and its Coastal impact - REMARC (Extragerea energiei refolosibile in mediul marin si impactul ei costier, Proiect de Cercetarea Exploratorie finanțat de UEFISCDI, cod PN-III-P4-IDPCE-2016-0017, Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Membru în echipă**. https://remarc.ugal.ro/

2013 - 2016: Data Assimilation Methods for improving the WAVE predictions in the Romanian nearshore of the Black Sea – DAMWAVE (Implementarea de metode de asimilare de date pentru a îmbunătăţi predicţia valurilor în zonele costiere româneşti ale Mării Negre), Proiect de Cercetarea Exploratorie finanțat de UEFISCDI, cod PN-II-ID-PCE-2012-4-0089, Universitatea 'Dunărea de Jos' din Galaţi, Romania, **Director proiect**. https://damwave.ugal.ro/

2013 - 2015: WAve predictions in the Nearshore with Data Assimilation (WANDA, Proiect de Cercetare Științifică și dezvoltare Tehnologică, finanțat de Fundação para a Ciência e a Tecnologia – FCT (Fundația pentru Știință și Tehnologie din Portugalia), cod PTDC/ECM-HID/1896/2012, implementat la CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal, **Director proiect**.

2014 – 2015: Present and future marine climate in the Iberian coast (CLIBECO), Proiect de Cercetarea Exploratorie finanțat de Fundação para a Ciência e a Tecnologia – FCT (Fundația pentru Știință și Tehnologie din Portugalia), cod EXPL/AAG-MAA/1001/2013), implementat la CENTEC - Centre for Marine Technology and Ocean Engineering, University of Lisbon, Portugal. **Membru în echipă**

2010 - 2013: Wave Prediction System for Coastal Maritime Traffic and Port Approaches, **Grant individual** finanțat de Fundação para a Ciência e a Tecnologia – FCT (Fundația pentru Știință și Tehnologie din Portugalia), cod *SFRH/BPD/65553/2009*, implementat la CENTEC - Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.

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