

Curriculum vitae Europass



Informații personale

Nume / Prenume **RUSU, Liliana Celia**
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Naționalitate(-tăți) Română / Portugheză
Data nașterii 11/01/1962

Experiența profesională

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



Perioada	2001 - 2004
Funcția sau postul ocupat	Cercetător
Activități și responsabilități principale	Procesare și analiză statistică a datelor înregistrate de rețeaua de balize a IH. Analiza evenimentelor extreme și modelare numerică.
Numele și adresa angajatorului	Instituto Hidrográfico - IH (Hydrographical Institute of the Portuguese Navy), 49, Rua das Trinas Street, 1249-093 Lisbon, Portugal
Tipul activității sau sectorul de activitate	Militar și Cercetare
Perioada	1985 - 2001
Funcția sau postul ocupat	Inginer
Activități și responsabilități principale	Tehnologie și proiectare
Numele și adresa angajatorului	Șantierul naval DAMEN, Galați
Tipul activității sau sectorul de activitate	Construcții și reparații nave

Educație și formare

Perioada	2015
Calificarea / diploma obținută	Abilitare
Disciplinele principale studiate / competențe profesionale dobândite	Titlul tezei: <i>Engineering applications with spectral phase averaged wave models</i>
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea 'Dunărea de Jos' din Galați, Str. Domnească Nr. 47, 800008 Galați, România
Perioada	2010 - 2016
Calificarea / diploma obținută	Specializări Post-doc
Disciplinele principale studiate / competențe profesionale dobândite	Asimilarea de date pentru predicția valurilor în zone regionale Dezvoltarea unui sistem comun pentru previziunea valurilor și evaluarea performanțelor la seakeeping ale navelor
Numele și tipul instituției de învățământ / 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 obținută	Doctor în domeniul Științe Inginerești – Arhitectură Navală și Inginerie Marină
Disciplinele principale studiate / competențe profesionale dobândite	Studii privind modelarea valurilor în zonele costiere și efectul curenților asupra valurilor, dinamica navei în valuri. Titlul tezei: <i>Wave modelling and ship response in coastal waters with currents</i>
Numele și tipul instituției de învățământ / furnizorului de formare	Technical University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Perioada	2002 - 2006
Calificarea / diploma obținută	Doctor în domeniul Științe Inginerești - Inginerie Mecanică
Disciplinele principale studiate / competențe profesionale dobândite	Modelarea proceselor hidrodinamice, hidrodinamica fluidului cu suprafață liberă Titlul tezei: <i>Cercetări si contribuții privind modelele spectrale si hamiltoniene aplicate în studiul dinamicii valurilor</i>
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea 'Dunărea de Jos' din Galați, Str. Domnească Nr. 47, 80008 Galați, România
Perioada	1980-1985
Calificarea / diploma obținută	Diplomă de Inginer, specializarea Tehnologia Construcțiilor de Mașini
Numele și tipul instituției de învățământ / furnizorului de formare	Facultatea de Mecanică, Universitatea 'Dunărea de Jos' din Galați, Str. Domnească Nr. 47, 80008 Galați, România

Domenii de competență

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

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

Autoevaluare
Nivel european (*)

Portugheză
Engleză
Franceză

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat	C2	Util. experimentat
C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat	C1	Util. experimentat
B1	Util. independent	B1	Util. independent	A2	Util. elementar	A2	Util. elementar	A2	Util. elementar

(*) Cadrul european de referință pentru limbi

Competențe și abilități sociale

- Experiență de lucru în echipă: am lucrat în diverse echipe de cercetare și majoritatea publicațiilor mele majore au fost realizate în echipă.
- Abilitate bună de adaptare la medii multiculturale, câștigate datorită experienței mele de lucru în străinătate. Am desfășurat activitate de cercetare științifică într-un centru de cercetare de prestigiu din Portugalia în care activează cercetători și studenți din diverse țări ale lumii.
- Capacitate bună de comunicare: în primul rând sunt cadru didactic și trebuie să comunic cu grupe de studenți (serii între 20 și 100 de studenți), deci comunicarea interumană este întrucâtva meseria mea. De asemenea am experiență în participarea la manifestări internaționale, în ultimii 5 ani am prezentat lucrări științifice în Australia, Brazilia, Bulgaria, Croația, Franța, Grecia, Portugalia, România, Spania, Tailanda, Turcia, etc.

Competențe și aptitudini organizatorice

Coordonare studenți atât în România cât și în Portugalia. Am coordonat activitatea de implementare operațională a modelului de valuri SWAN din cadrul proiectului MARPORT, CENTEC, Portugalia

Competențe și aptitudini tehnice

Utilizarea instrumentelor multimedia în activitățile de predare; Elaborarea de noi cursuri și prezentarea de lucrări științifice la diferite conferințe internaționale; Simulări cu modele numerice.

Competențe și aptitudini de utilizare a calculatorului

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

Permis(e) de conducere

Categoria B

Informații suplimentare

Membre în asociații / comitete:

- Membru asociat al Academiei de Științe Tehnice din România, Secția Mecanică Tehnică <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 Național de Etică a Cercetării Științifice, Dezvoltării Tehnologice și Inovării (2016-prezent) <http://cne.ancs.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 Aerospațială, Autovehicule și Transporturi (2017-2020) <http://www.cnatdcu.ro/paneluri-cnatdcu/incepand-cu-data-de-7-septembrie-2012/stiinte-ingineresti/comisia-de-inginerie-aerospațiala-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 (2016 - Bangkok, 2018 – Barcelona, 2019 – Coimbra, 2021 - Barcelona) <http://www.icacer.com/com.html>
- Member of the MARTECH Conference Technical Programme Committee (2020 – Lisbon, Portugal) <http://www.centec.tecnico.ulisboa.pt/martech2020/structure.aspx>
- Member of the ICEEEP Conference Technical Committees (2021 – Barcelona, Spain) <http://www.iceeep.com/index.html>
- Member of the REPE Conference Technical Committees (2019 – Toronto, Canada, 2020 – Edmonton, Canada) <http://www.repe.net/com.html>
- Member of the ICPRE Conference Technical Committee (2018 – Berlin, Germany, 2019 - Chengdu, China, 2020 – Shanghai, China) <http://www.icpre.org/committee.html>
- Member of the Advisory Committee - 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG 2020), Prague, Czech Republic www.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/>
- Member of the Scientific Advisory Board of the 13th SDEWES Conference (2018), Palerrmo, Italia <http://www.palermo2018.sdewes.org/sab.php>, 14th SDEWES Conference (2019), Dubrovnik, Croatia <https://www.dubrovnik2019.sdewes.org/>, 15th SDEWES Conference (2020), Cologne, Germany <https://www.cologne2020.sdewes.org/scientific-advisory-board>
- Member of the Advisory Committee - 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG 2020), Prague, Czech Republic www.ccesg.org
- Editorial board of the journals: Earth (2019-2022), Civil Engineering Journal (WoS indexed), Journal of Marine Science and Engineering (WoS indexed)
<http://www.mdpi.com/journal/jmse/editors>
<https://www.mdpi.com/journal/earth/editors>
<https://civilejournal.org/index.php/cej/about/editorialTeam>

Diplome/Premii:

- **Best paper Award 2018**, at 1st Latin american 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 obținerea atestatului de abilitare
- **Premii acordate de UEFISCDI** în cadrul programului PN II pentru articole științifice: **2010 și 2015** (autor unic), **în 2015, 2019, 2020 și 2021** pentru un articol științific, autor principal
- **Diploma ‘Anghel Saligny’** pentru rezultate de excelență în funcția didactică de conferențiar, acordată de Consiliul Facultății 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: [world ranking of scientist \(2%\).xlsx](#)

Researcher ID: <http://www.researcherid.com/rid/B-6823-2011> **H index = 24**

SCOPUS ID: <http://www.scopus.com/authid/detail.url?authorId=24067330300> **H index = 25**

Google: <https://scholar.google.com/citations?user=DUgsKoQAAAAJ&hl=ro&oi=ao> **H index = 28**

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

WoS: <https://www.webofscience.com/wos/author/record/1209224>

Researchgate: https://www.researchgate.net/profile/Liliana_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>

Anexe

Lista lucrărilor și proiectelor

Martie 2023

Liliana Celia Rusu

ANEXĂ

LISTA LUCRĂRILOR ȘTIINȚIFICE

A1 Lucrări publicate in reviste cotate ISI

1. 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>
2. Chiroasca, A.M. and 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>
3. 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>
4. Chang, Y.C., Mitchell, N., Quartau, R., Hübscher, C., Rusu, L. and 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>
5. 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>
6. Chiroasca, A.M., Rusu, L. and Bleoju, A., 2022. Study on wind farms in the North Sea area. *Energy Reports*, 8, pp.162-168. <https://doi.org/10.1016/j.egy.2022.10.244>
7. 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.egy.2022.10.193>
8. 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>
9. 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>
10. 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>
11. 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.egy.2021.05.058>
12. 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>
13. 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>
14. 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>
15. 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.egy.2021.06.018>
16. 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>
17. Onea, F., Rusu, E., Rusu, L., 2021. Assessment of the Offshore Wind Energy Potential in the Romanian Exclusive Economic Zone, *Inventions*, 9(5), 531. <https://doi.org/10.3390/jmse9050531>
18. 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>
19. Chiroșcă, 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>
20. 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>
21. 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.
22. 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>

23. 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>
24. 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>
25. 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>
26. 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>
27. 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>
28. 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>
29. 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>
30. 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>
31. 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>
32. 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>
33. 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>
34. 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>
35. 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>
36. 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>
37. 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>
38. 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>
39. 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>
40. 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>
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A6 Participări la proiecte de cercetare

- 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: Sea State, ESA Climate Change Initiative, partener "Dunarea de Jos" University of Galati, Romania, **Responsabil partener.** <https://climate.esa.int/en/projects/sea-state/>
- 2017 - 2019: Evaluarea efectelor produse de schimbările climatice asupra condițiilor de val din Marea Neagră – ACCWA (PN-III-P4-IDPCE-2016-0028), at "Dunarea de Jos" University of Galati, Romania, **director proiect.** <https://accwa.ugal.ro/>
- 2017 - 2019: Extragerea energiei refolosibile in mediul marin si impactul ei costier- REMARC (PN-III-P4-IDPCE-2016-0017), at "Dunarea de Jos" University of Galati, Romania, **membreu echipă.** <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, **membreu echipă – 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, **director proiect**. <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, **director proiect**.
- 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. **membru echipă**
- 2010 - 2013: Wave Prediction System for Coastal Maritime Traffic and Port Approaches, **individual grant** (SFRH/BPD/65553/2009), at CENTEC - Center 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 - Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal. **membru echipă**
<http://www.centec.ist.utl.pt/nearport/en/home.aspx>
- 2007 – 2008: MARPORT – Wave Modelling Forecast System in the Portuguese Ports, at CENTEC - Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.
- 2006 – 2008: RADMONITOR – Radar Monitoring of the Sea States at the Port of Sines, at CENTEC - Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal. **membru echipă**
- 2004 – 2008: Wave-current Interactions in the Nearshore, **individual grant** (SFRH/BD/13176/2003), at CENTEC - Center 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 Hydrographical Institute of the Portuguese Navy. **membru echipă** <http://www.hidrografico.pt/mocassim.php>

Martie 2023

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