

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) L

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)

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

Nationality

Romanian

Date of birth

11/01/1962

Gender

Female

Work experience

Dates

15/03/2016 →

Occupation or position held

Professor, Department of Mechanical Engineering http://www.im.ugal.ro/AcademicStaff.htm

Main activities and responsibilities

Teaching and research

Name and address of employer

"Dunarea de Jos" University of Galati, http://www.ugal.ro/

47, Domneasca St., 800008 Galati, Romania

Type of business or sector

Public University

Dates

01/10/2012 - 14/03/2016

Occupation or position held

Main activities and responsibilities

Associate Professor, Department of Mechanical Engineering http://www.im.ugal.ro/AcademicStaff.htm

Teaching and research

Name and address of employer

"Dunarea de Jos" University of Galati, http://www.ugal.ro/

47, Domneasca St., 800008 Galati, Romania

Type of business or sector

Public University

Dates

24/02/2004 - 30/09/2012

Occupation or position held

Assistant Professor, Department of Applied Mechanics

Main activities and responsibilities

Teaching and research

Name and address of employer

"Dunarea de Jos" University of Galati, http://www.ugal.ro/

47, Domneasca St., 800008 Galati, Romania

Type of business or sector

Public University

Dates

2016 →

Occupation or position held

Professor (Collaborator), http://www.mar.ist.utl.pt/en/centec/personnel.aspx?id=1

Main activities and responsibilities

Scientific research focused mainly on wave modelling, renewable energy and analysis of the

environmental data.

Name and address of employer

Centre for Marine Technology and Ocean Engineering - CENTEC, University of Lisbon

1, Rovisco Pais Street, 1049-001 Lisbon, Portugal

Type of business or sector

Public University - Research Centre

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Liliana Celia Rusu

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.

Instituto Hidrográfico - IH (Portuguese Hydrographic Institute of the Navy), Name and address of employer

49, Rua das Trinas Street, 1249-093 Lisbon (Portugal)

http://www.hidrografico.pt/

Type of business or sector Military and Research

> 01/08/1985 - 30/06/2001 Dates

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

October 2015

Habilitation Title of qualification awarded

Principal subjects / occupational skills

Name and type of organisation

Thesis title: Engineering applications with spectral phase averaged wave models

"Dunarea de Jos" University of Galati,

providing education and training 47, Domneasca Street, 800008 Galati, Romania

> 2010 - 2013 **Dates**

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

2002 - 2006 Dates

Title of qualification awarded

PhD in Mechanical Engineering, University Dunarea de Jos 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

"Dunarea de Jos" University of Galati

providing education and training 47 Domneasca Street, 800008 Galati, Romania

> 1980 - 1985 Dates

Title of qualification awarded Diploma of Mechanical Engineering

Page 2 / 11 - Curriculum vitae of Liliana Celia Rusu Principal subjects / occupational skills

Name and type of organisation providing education and training

Mechanical Engineering

"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 wavebody 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

Reading

- Spectral analysis
- Wave energy assessment, Wave energy extraction and its coastal impact

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

Portuguese English French

UnderstandingListening Re

C2 Proficient user C2 Proficient user

SpeakingSpoken interaction Spoken

Spoken interaction Spoken production
C2 Proficient user C2 Proficient user

C2 Proficient user

Writing

C1 Proficient user C1 Proficient

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 Master students in both Romania and Portugal.

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

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

Other 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)

D:: " ()

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 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
- 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), Palerrmo, Italia

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Liliana Celia Rusu

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 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

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

SCOPUS ID: http://www.scopus.com/authid/detail.url?authorld=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

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
- 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/i.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
- 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_ICS2009.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 aplicaţii la predicţia 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 Léon, 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. https://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/
- 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
- 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://iitte.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/
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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
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 (<i>SFRH/BPD/65553/2009</i>), 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.
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