

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Liliana Celia Rusu**
Address 9, Traian Street, Bl. W3, Ap. 11, 800 043 Galati (Romania)
Telephone(s) +40 236410434 **Mobile** | +40 745399426
E-mail(s) lrusu@ugal.ro ; lrusu@mar.ist.utl.pt
Nationality Romanian
Date of birth 11/01/1962
Gender Female

Work experience

Dates 01/10/2012 →
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., 80008 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., 80008 Galati, Romania
Type of business or sector Public University

Dates 2004 - 2013
Occupation or position held Associate Researcher, <http://www.mar.ist.utl.pt/en/centec/personnel.aspx?id=1>
Main activities and responsibilities Scientific research focused mainly on: wave modelling, implementation and developing of an operational wave prediction system for the Portuguese Coastal area, analysis of the environmental data. 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 address of employer Centre for Marine Technology and Engineering - CENTEC, Technical 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

Name and address of employer	analysis of environmental parameters. Extreme event analysis. 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	2010 - 2013
Title of qualification awarded	Post-doctoral specializations
Principal subjects / occupational skills covered	Data assimilation for regional wave prediction Development of a joint model system for wave predictions and assessing seakeeping performances
Name and type of organisation providing education and training	Centre for Marine Technology and Engineering - CENTEC, Technical University of Lisbon 1, Rovisco Pais Street, 1049-001 Lisbon, Portugal
Dates	2004 - 2009
Title of qualification awarded	PhD in Naval Architecture and Marine Engineering, Technical University of Lisbon, Portugal
Principal subjects / occupational skills covered	Studies concerning wave modelling in coastal areas and effects of currents on waves, ship dynamic responses. Thesis title: <i>Wave modelling and ship response in coastal waters with currents</i>
Name and type of organisation providing education and training	Technical University of Lisbon 1, Av. Rovisco Pais Street, 1049-001 Lisbon, Portugal
Dates	2002 - 2006
Title of qualification awarded	PhD in Mechanical Engineering, University <i>Dunarea de Jos</i> of Galati, Romania
Principal subjects / occupational skills covered	Modelling of the free-surface hydrodynamics Thesis title: <i>Researches and contributions to the spectral and Hamiltonian models applied to study wave dynamics</i>
Name and type of organisation providing education and training	"Dunarea de Jos" University of Galati 47 Domneasca Street, 800008 Galati, Romania
Dates	1980 - 1985
Title of qualification awarded	Diploma of Mechanical Engineering
Principal subjects / occupational skills covered	Mechanical Engineering
Name and type of organisation providing education and training	"Dunarea de Jos" University of Galati, 47, Domneasca Street, 800 008 Galati, Romania
Personal skills and competences	<ul style="list-style-type: none"> - Classical and fluid mechanics. Mathematical modeling of free-surface hydrodynamics and wave-body interaction problems using Hamiltonian approach. Water wave mechanics. - Waves in ocean and coastal areas, wave propagation and coastal transformation, nearshore processes, wave-current interactions: modeling, mathematical theory and simulations with numerical wave models (SWAN, STWAVE, REF/DIF models). - Data processing and visualization using MATLAB environment - Spectral analysis - Wave energy assessment, Wave energy extraction and its coastal impact
Mother tongue(s)	Romanian

Other language(s)

Self-assessment

European level (*)

Portuguese

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
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 through 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

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

OCEANEXPERT <http://oceanexpert.org/viewMemberRecord.php?&memberID=14478>

IMAM – International Maritime Association of the Mediterranean

Researcher ID: <http://www.researcherid.com/rid/B-6823-2011>

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

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

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

Editorial board of the journal Coastal and Marine Research

<http://www.sciknow.org/journals/editor/id/cmr>

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., Bernardino, M., Guedes Soares, C., 2014. Wind and wave modelling in the Black Sea. *Journal of Operational Oceanography* 7(1), 5-20.
2. 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
3. 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>
4. 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>
5. 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>
6. 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>
7. 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.ingentaconnect.com/content/imarest/joo/2011/00000004/00000002/art00002>
8. 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>
9. 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
10. Rusu, L., Bernardino, M., Guedes Soares, C., 2009. Influence of Wind Resolution on the Prediction of Waves Generated in an Estuary. *Journal of Coastal Research* SI 56, 1419- 1423. http://e-geo.fcsh.unl.pt/ICS2009/docs/ICS2009_Volume_II/1419.1423_L.Rusu_IC2009.pdf
11. 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>
12. 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

In press

13. Rusu, L., Guedes Soares, C., 2013. Forecasting fishing vessel responses in coastal areas, *Journal of Marine Science and Technology (Japan)*, in press, pp. 1 - 13 <http://dx.doi.org/10.1007/s00773-013-0241-2>
14. Ivan, A., Rusu, L., Validation of the SWAN model for the influence of opposite currents on the wave spectra. *Environmental Engineering and Management Journal*, accepted August 2012. <http://omicron.ch.tuiasi.ro/EEMJ/accepted.htm>

A2 Books

1. 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
2. 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., 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.
2. 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.

3. 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.
4. 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.
5. 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.
6. 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).
7. 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).
8. 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.
9. 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).
10. 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.
11. 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.
12. 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., Răileanu, A., 2014. Wave modelling to assess the storm conditions in the Black Sea. Poster presented at European Geosciences Union General Assembly 2014 (EGU2014), Vol. 16, EGU2014-2140. 27 Apr–02 May, Vienna, Austria. <http://meetingorganizer.copernicus.org/EGU2014/EGU2014-2140.pdf>
2. Rusu, L., Butunoiu, D., Rusu, E., 2014. Analysis of the extreme storm events in the Black Sea considering the results of a five year wave hindcast, *International Conference AQUALIRES 2014 – New tools for sustainable management of aquatic living resources*, Bucharest, Romania, 17-18 January 2014, <http://aqualires.incdpm.ro/images/AGENDA.pdf>, included in the calendar of the European Environment Agency, <http://www.eea.europa.eu/events/new-tools-for-sustainable-management>
3. Toderascu, R., Rusu, L., 2012. Study on the currents variability and patterns in the Black Sea. In: *Proc. of 12th International Multidisciplinary Scientific GeoConference (SGEM2012) – Marine and Ocean Ecosystems*, 17-23 June, Albena, Bulgaria, Vol. III, 825-832. <http://dx.doi.org/10.5593/sgem2012/s13.v3041>
4. Ivan, A., Rusu, L., Măcuță, S., 2012. Validations with experimental data of SWAN simulations for the wave propagation in the presence of strong opposite currents. In: *Proc. of 12th International Multidisciplinary Scientific GeoConference (SGEM2012)*, 17-23 June, Albena, Bulgaria, Vol. III, 1025-1032. <http://dx.doi.org/10.5593/sgem2012/s14.v3013>
5. Rusu, L., Guedes Soares, C., 2011. Evaluation of the operational forecast system implemented for the Leixões port. *7^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária*, Porto, Portugal, 6-7 October, Ed. CD, 11p (in Portuguese).
6. Butunoiu, D., Rusu, L., 2011. Influence of the wind resolution in modeling the extreme wave conditions in the Black Sea. *International Environmental Conference - Sustainable Development in Coastal Areas*, 29 June – 1 July, Ioannina, Greece.
7. Rusu, L., Bernardino, M., Guedes Soares, C., 2010. Wave forecast at the entrance of the Tagus estuary. *Third International Conference on the Application of Physical Modelling to Port and Coastal Protection (CoastLab2010)*, 28-30 September & October 1, Barcelona, Spain, Ed. CD, 7p.
8. Rusu, L., 2010. Wave modelling in the Black Sea, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 367-372.
9. Rusu, L., Bernardino, M., Pilar, P., Guedes Soares, C., 2010. Extreme wave predictions at the entrance of the Tagus estuary. In: *Actas das 1^{as} Jornadas de Engenharia Hidrográfica*, Lisbon, 21-22 June, 25-28, (in Portuguese). <http://www.marinha.pt/PT/noticiaseagenda/noticias/Documents/BoletimlasJornadasEngenharia.pdf>
10. Bento, R., Silva, D., Rusu, L., Guedes Soares, C., 2010. Evaluation of the wave conditions off-shore of the Faro and Setúbal ports. In: *Actas das 1^{as} Jornadas de Engenharia Hidrográfica*, Lisbon, 21-22 June, 265-268, (in Portuguese). <http://www.marinha.pt/PT/noticiaseagenda/noticias/Documents/BoletimlasJornadasEngenharia.pdf>
11. Gasparotti, C., Rusu, L., 2010. Risk assessment of oil spills from Black Sea basin, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 403-408.
12. Gasparotti, C., Rusu, L., 2010. Seakeeping studies for containerships operating in the Black Sea, *Tenth International Conference on Marine Sciences and Technologies - BLACKSEA2010*, 7-9 October, Varna, Bulgaria, 160-165.

13. Măcuța, S., Rusu, L., 2009. Modelling by finite element method of stress state establishing and experimental research regarding the elasto-plastic deformations of some steels alloys, Proceedings of the 12th International Congress of the International Maritime Association of the Mediterranean - IMAM2009 – Towards Sustainable Marine Technology and Transport, Istanbul, Turkey, 12-15 October, 870-896.
14. Bernardino, M., Rusu, L., Silva, D., Bento, R., Pilar, P., Guedes Soares, C., 2009. Performance evaluation of the wave prediction system implemented for the Portuguese ports. 6^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária, Funchal-Madeira, Portugal, 8-9 October, Ed. CD, 19p (in Portuguese).
15. Rusu, L., Bernardino, M., Guedes Soares, C., 2008. Influence of the wind fields on the accuracy of numerical wave modelling in offshore locations, Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering - OMAE2008, ASME, Paper OMAE2008-57861, June 15-20, Estoril, Portugal, AMER Soc MECHANICAL ENG., New York, Vol. 4, 637-644.
16. Bernardino, M., Rusu, L., Guedes Soares, C., 2008. Validation of a wave forecast system for the Portuguese ports. Proc. of the 5th European Global Ocean Observing System Conference - Coastal to Global Operational Oceanography: Achievements and Challenges (EuroGOOS2008), Exeter, UK, 20-22 May, Ed. CD, 8p.
17. Rusu, L., Bernardino, M., Guedes Soares, C., 2007. Wave modelling in Tagus estuary. 5^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária, Lisbon, Ed. CD, 14p (in Portuguese).
18. Rusu, E., Rusu, L., Guedes Soares, C., 2006. Assessing of Extreme Wave Conditions in the Black Sea with Numerical Models, Proc. of the 9th International Workshop on Wave Hindcasting and Forecasting, Victoria, Canada, 24 - 29 September, 11p.
<http://www.waveworkshop.org/9thWaves/>
19. Rusu, L., Guedes Soares, C., 2006. Wave Modelling in the Black Sea Western Nearshore, Proc. of the Eighth International Conference on Marine Science and Technology "Black Sea 2006", Varna, Bulgaria, 25 - 27 September, 182-187.
20. Rusu, L., Pilar, P., Guedes Soares, C., 2005. Hindcasts of the Wave Conditions in Approaches to Ports of the North of Portugal, Proc. of the Fifth International Symposium on Ocean Wave Measurement and Analysis - WAVES 2005, 3-7 July, Madrid, Spain, Paper number 145, CD edition, 9p. <http://www.cedex.es/waves2005/>
21. Rusu, L., Măcuța, S., Rusu, E., 2005. A Mathematical Hamiltonian Model for the Wave Propagation, Proc. of the Annual Symposium of the Institute of Solid Mechanics (SISOM 2005), Romanian Academy, Department of Technical Sciences, Bucharest, Romania, 19-20 May, 40-47.
http://217.73.165.147/SISOM_Papers_2005/7_D.pdf
22. Rusu, E., Măcuța, S., Rusu, L., 2005. New Hamiltonian Techniques in Marine Engineering, paper presented at the Annual Symposium of the Institute of Solid Mechanics (SISOM 2005), Romanian Academy, Department of Technical Sciences, Bucharest, Romania, 19-20 May, 164-171.
http://217.73.165.147/SISOM_Papers_2005/29_D.pdf
23. Rusu, L., Pilar, P., Guedes Soares, C., 2005. Wave hindcast in the southern part of the Portuguese continental nearshore, paper presented at 4^{as} Jornadas de Engenharia Costeira e Portuária, Azores Archipelago, Angra do Heroísmo, Portugal, 20-21 October, CD edition, 10p, (in Portuguese).
24. Rusu, E., Matulea, I., Rusu, L., 2004. Linear and Non Linear Models to Assess the Wave Induced Currents in the Nearshore, paper presented at the Seventh International Conference on Marine Science and Technology - BlackSea2004, 7-9 October, Varna, Bulgaria, 150-157.
25. Rusu, E., Rusu, L., Matulea, I., 2004. Prediction of the Nearshore Wave Propagation with Spectral Models, paper presented at the Seventh International Conference on Marine Science and Technology - BlackSea2004, 7-9 October, Varna, Bulgaria, 142-149.
26. Costa, M., Rusu, L., 2004. An extreme event analysis in the Portuguese nearshore, poster presentation, Section Operational Oceanography, 1st EGU General Assembly, Nice, France, 25-30 April. <http://www.cosis.net/abstracts/EGU04/03382/EGU04-J-03382.pdf>
27. Rusu, E., Soares, C.V., Pinto, J.P., Rusu, L., 2003. LUSOWAVES - Implementação de um Sistema Operacional de Previsão da Agitação Marítima Junto a Costa Portuguesa, 3^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária, Aveiro 13-14 November, 15p, CD edition.
28. Costa, M., Baptista, B., Rusu, L., 2003. Vinte Anos de Dados de Agitação Marítima na Costa Portuguesa, 3^{as} Jornadas Portuguesas de Engenharia Costeira e Portuária, Aveiro, Portugal, 13-14 November, 12p, CD edition.
29. Rusu, E., Silva, R., Pinto, J.P., Rusu, L., Soares, C.V., Vitorino, J., 2003. Assessment and Prediction of the Nearshore Wave Propagation in the Case of M/V Prestige Accident, Section Operational Oceanography, The Joint Assembly EGS-AGU-EUG, Nice, France, 7-11 April.
<http://cosis.net/abstracts/EAE03/07016/EAE03-J-07016.pdf>

A5 Publications in Romanian Journals

1. Gasparotti, C., Rusu, L., 2013. Seakeeping performance assessment for a containership in a specific sea area. *Mechanical Testing and Diagnosis*, Volume 1, 38-48.
2. Onea, F., Rusu, L., 2013. Influence of a hybrid wave-wind farm on the Romanian coastal area. *Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics*, Fascicle II, Year V(XXXVI) 2013, No. 2, 146-152 (B+) http://www.phys.ugal.ro/Annals_Fascicle_2/
3. Rusu, L., Gasparotti, C., 2010. A Hamiltonian representation of surface waves. *The Annals of the Dunarea de Jos University of Galati*, Fascicle II, Mathematics, Physics, Theoretical Mechanics, No.2, 227-241. http://www.phys.ugal.ro/Annals_Fascicle_2/Year2010/index2.htm
4. Toderascu, R., Rusu, L., Lucas, C., 2010. A Lagrangian Approach for the Wave Body Interactions Problem. *The Annals of "Dunarea de Jos" University of Galati*, Fascicle X, Applied Mechanics, No. 1.

<http://www.mrm.ugal.ro/AnnalsAbstracts/2010/A-2.pdf>

5. Toderascu, R., Rusu, L., 2010. Some features of the MOHID Water Modelling System and on the reliability of such model for the Black Sea basin. *The Annals of "Dunarea de Jos" University of Galati, Fascicle X, Applied Mechanics, No. 2.* <http://www.mrm.ugal.ro/AnnalsAbstracts/2010/2/1%20RToderascu%20LRusu.pdf>
6. Rusu, L., Bernardino, M., 2009. Estimation of the operability index of a containership operating in Black Sea. *The Annals of "Dunarea de Jos" University of Galati, Fascicle VIII, Tribology, No. 2.* <http://www.om.ugal.ro/AnnalsFasc8Tribology/index.htm>
7. Tudorascu, R., Rusu, L., Lucas, C., 2009: Wave Propagation in the Black Sea Marine Environment. *The Annals of Dunarea de Jos University of Galati, Fascicle X, Applied Mechanics, 97-106.* <http://www.mrm.ugal.ro/AnnalsAbstracts/2009/LL-5.pdf>
8. Rusu, L., 2008. New Validations for the Wave Prediction System Implemented in the Black Sea Basin, *12th International Symposium of Experimental Stress Analysis and Testing of Materials (ARTENS2008)*, published in *The Annals of Dunarea de Jos Galati University, Fascicle XIV, Mechanical Engineering, 85-90.* <http://md1.csa.com>
9. Rusu, L., 2008. Application of the Canonical Perturbation Theory to Model the Free Surface Hydrodynamics, *12th International Symposium of Experimental Stress Analysis and Testing of Materials (ARTENS2008)*, published in *The Annals of Dunarea de Jos Galati University, Fascicle XIV, Mechanical Engineering,, 91-94.* <http://md1.csa.com>
10. Rusu, L., 2008. Analysis of the Wave-Current Interactions in an Offshore Basin. *The Annals of Dunarea de Jos Galati University, Fascicle X, Applied Mechanics, 101-106.* http://www.mrm.ugal.ro/AnnalsAbstracts/2008/17_LRusu_anale2008.pdf
11. Rusu, L., Ponce, S., 2007. On the Performances of the Third Generation Spectral Wave Models in the Black Sea. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 23-32.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/4-LRusu_anale2007.pdf
12. Muşat, S., Rusu, L., 2007. Study of Torsion in the Systems with Ramifications for Transmitting the Rotation Motion. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 17-22.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/2-Musat_anale2007.pdf
13. Muşat, S., Rusu, L., 2007. Lagrange Equations with Multipliers for the Rigid Body. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 11-17.* http://www.mrm.ugal.ro/AnnalsAbstracts/2007/2-Musat_anale2007.pdf
14. Rusu, L., 2006. Numerical Simulations to Estimate the Propagation of an Accidental Oil Spillage in the Black Sea Nearshore. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 43-48.*
15. Rusu, E., Rusu, L., 2006. Development of an Operational Wave Prediction System to Assess the Wave Propagation in the Black Sea. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 33-42.*
16. Rusu, L., 2005. Hamilton's Dissipative Equations of Water-Waves. *The Annals of Dunarea de Jos University of Galati, Fascicle II Mathematics, Physics, Theoretical Mechanics, 5-12.*
17. Rusu, L., Matulea, I., 2005. Generalized Canonical Equations of Water Waves. *The Annals of Dunarea de Jos University of Galati, Fascicle X Applied Mechanics, 15-20.*
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A6 PARTICIPATION TO RELEVANT RESEARCH PROJECTS

- Since 2013: 2013: 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
- Since 2010: Wave Prediction System for Coastal Maritime Traffic and Port Approaches, individual grant (SFRH/BPD/65553/2009), at CENTEC - Centre for Marine Technology and Engineering, Technical 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 Engineering, Technical 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 Engineering, Technical 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 Engineering, Technical 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 Engineering, Technical University of Lisbon, Portugal.
- 2001 – 2004: MOCASSIM - Development of national competences for the implementation of oceanographic models with data assimilation, at the Hydrographic Institute of the Portuguese Navy. <http://www.hidrografico.pt/mocassim.php>

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