Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Eugen Victor Cristian RUSU**
Address(es)	9 Traian St., Bl. W3 Ap. 11, 6200 Galati, Romania
Telephone(s)	Personal: +402 36 410434 Mobile: +40 740205534
Fax(es)	+402 36 461353
E-mail	erusu@ugal.ro , eugen.rusu@mar.ist.utl.pt evcrusu@yahoo.com
Nationality	Romanian
Date of birth	18.12.1957
Gender	Male

Work experience

Dates	Since March 2001
Occupation or position held	University Professor, Department of Applied Mechanics, Head of Laboratory of Computations and Modeling in Applied Mechanics, http://www.mrm.ugal.ro/CadreDidactice.htm
Main activities and responsibilities	Teaching, research, supervising PhD and Master students. 2008-2011, Institutional Responsible with Structural Funding Since 2012 member in the commission of Mechanical Engineering of CNATDCU, National Council for the Recognition of Degrees, Diplomas and Certificates, http://www.cnatdcu.ro/
Name and address of employer	Dunarea de Jos Galati University, http://www.ugal.ro/ 111, Domneasca St., 80008 Galati, Romania,
Type of business or sector	Public University
Dates	Since September 2007 (also)
Occupation or position held	Sr. Scientist (part time)
Main activities and responsibilities	Scientific research, focused mainly on: survey, modelling and analysis of the environmental data along the navigation routes correlated with the natural and technological risks that may occur in these zones In the period, 2009-2011, manager at the project NEARPORT - Development of a real-time nearshore wave prediction system for the Portuguese ports, 112 000 Euro – project granted by the Portuguese Foundation for Science and Technology with EU funding http://www.mar.ist.utl.pt/nearport/en/home.aspx
Name and address of employer	CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal, http://www.mar.ist.utl.pt/en/index.aspx Av. Rovisco Pais, 1049-001 Lisbon, Portugal
Type of business or sector	Public University – Research Centre
Dates	June – December 2005
Occupation or position held	Consulting scientist

Main activities and responsibilities	Modelling physical processes in coastal environment, analysis of environmental data
Name and address of employer	NATO Undersea Research Centre, http://www.nurc.nato.int/, Viale S. Bartolomeo, 400 19138 La Spezia Italy
Type of business or sector	NATO Research Unit
Dates	September 1982 - March 2001
Occupation or position held	Successively positions from research engineer to Senior Lecturer (Associate Professor)
Main activities and responsibilities	Teaching and research
Name and address of employer	Dunarea de Jos Galati University, http://www.ugal.ro/ 111, Domneasca St., 80008 Galati, Romania,
Type of business or sector	Public University

Education and training

Dates	September 1999 - September 2004
Title of qualification awarded	Post doctoral specialization
Principal subjects/occupational skills covered	Survey and analysis of the environmental data. Predictions of the environmental parameters with numerical models. Assessment of the natural and technological risks in ocean and coastal environment.
Name and type of organisation providing education and training	Instituto Hidrográfico da Marinha, Lisbon, Portugal; http://www.hidrografico.pt Portuguese National Laboratory.
Dates	October 1990 – May 1997
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Studies concerning wave propagation and impact in coastal environment Thesis title: *'Analytical Mechanics of Continuous Media with Application to Marine Technology'*
Name and type of organisation providing education and training	University *"Dunarea de Jos"* of Galati, Romania co supervision in collaboration with the National Technical University of Athens
Dates	October 1977 – July 1982
Title of qualification awarded	Naval Architect, head of series of graduates
Principal subjects/occupational skills covered	Naval and Marine engineering
Name and type of organisation providing education and training	University *"Dunarea de Jos"* of Galati, Romania

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
Portuguese	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
Italian	C1	Proficient user	C1	Proficient user	B1	Independent user	B1	Independent user	B1	Independent user
French	B1	Independent user	B2	Independent user	A2	Basic user	A1	Basic user	A1	Basic user
Spanish	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

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. Presently as Project manager in Portugal I am also coordinating a team. - Good ability to adapt to multicultural environments, gained though my work experience abroad: I performed scientific work in various countries, especially in Greece, Portugal and Italy and this gave me the ability to adapt very quick to multicultural environments and, on the other hand, gives me a better understanding of the multicultural issues in general. - Good communication skills: First of all I am a University Professor and I have to deal with a lot of students (series from 20 to 200 students), so human communication is in some sense my job. On the other hand, I have also a very large experience in participating to I international meetings since I have participated in the last five years to more than 25 such meetings in Italy, France, Spain, Portugal, Bulgaria, Romania, Canada where I presented communications that were usually extremely well received by the audience.
Organisational skills and competences	In my home University (Galati University) I am Institutional responsible with structural Funding and I am leading a team of more than 20 people. As NEARPORT project manager in Portugal I was leading also a team of 7 persons I am currently supervising PhD and Master students in both Romania and Portugal
Technical skills and competences	I am University Professor in Engineering, so it is supposed that 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, Renewable Energy). Moreover, due to my current scientific work I have special competences as regards environmental data measurements and analysis. During my work at NATO, I had the opportunity to enter in contact with the most evaluated tools and techniques related with environmental data analysis and measurements.
Computer skills and competences	- very good command of Microsoft Office tools (Word, Excel and PowerPoint); - good command of graphic design applications (Paint Shop Pro, Photo Shop, etc) - extremely good command of Matlab (I developed computer software that is currently used by NATO as reflected also by the publication: A Hybrid Framework for Predicting Waves and Longshore Currents, http://dx.doi.org/10.1016/j.jmarsys.2007.02.009 Journal of Marine Systems 69 (2008) 59–73.
Other skills and competences	- I have a great capacity of concentration on my work and focus on the most essential issues. This is reflected somehow also in my list of publications; - I have been member in various scientific committees (for example IMAM – International Maritime Association of the Mediterranean 2005, 2007, 2009, 2011) http://www.mar.ist.utl.pt/imam2005/commitee.aspx http://www.imamhomepage.org/imam2007/structure.aspx http://www.imam2009.itu.edu.tr/organization.html http://www.imam2011.it/Committees.html and professional organizations (OCEANEXPERT http://oceanexpert.org ; MARTEC, http://www.iode.org/index.php?option=com_oe&task=viewMemberRecord&memberID=13477
Driving licence	Category B

Additional information

- Institutional responsible with the bilateral cooperation programme for joint PhD co-supervision between UDJG and IST Lisbon:
- National evaluator CNCSIS, with more than 50 projects evaluated in the last five years;
- National evaluator CNMP (National Centre of Project Management) in the fields of Defence and National Security (16 projects evaluated);
- Included in the Romanian National Portal of the Scientists;
- International Expert Evaluator / South-East Europe Program;
- International Expert Evaluator for the Bulgarian National Fund / 73 projects evaluated in 2008 and 2009 in the fields of renewable energy and environment; International Expert Evaluator- MARTEC
- International reviewer (Journal of Marine Systems, Ocean Engineering, Journal of Coastal Research, IMAM and OMAE conferences), about 50 scientific works reviewed in the last five years;

Researcher ID: http://www.researcherid.com/rid/B-6766-2011

Annexes

I List of relevant publications
II Values of the indicators related with the minimal standards for habilitation (September 2012)

ANNEX

LIST OF RELEVANT PUBLICATIONS AND PARTICIPATION TO RESEARCH PROJECTS

A - PUBLICATIONS IN INTERNATIONAL JOURNALS (SELECTED)

1. Rusu, E., Guedes Soares, C., 2012: Wave energy pattern around the Madeira islands. *Energy*, in press. http://dx.doi.org/10.1016/j.energy.2012.07.013

2. Onea, F., Rusu E., 2012: Wind energy assessments along the Black Sea basin. *Meteorological Applications*, *in press*. http://onlinelibrary.wiley.com/doi/10.1002/met.1337/abstract

3. Rusu, E and Guedes Soares, 2012: Modeling waves in open coastal areas and harbors with phase resolving and phase averaged models, *Journal of Coastal Research, in press*, http://www.jcronline.org/doi/abs/10.2112/JCOASTRES-D-11-00209.1

4. Rusu, E, 2011: Strategies in using numerical wave models in ocean/coastal applications. *Journal of Marine Science and Technology- Taiwan*, Vol. 19, No. 1, pp 58-73. http://jmst.ntou.edu.tw/marine/19-1/58-75.pdf

5. Rusu, E., Gonçalves, M and Guedes Soares, C., 2011: Evaluation of the wave transformation in an open bay. *Ocean Engineering*, Vol. 38, 16, pp 1763–1781, http://dx.doi.org/10.1016/j.oceaneng.2011.08.005

6. Rusu, E. and Guedes Soares, C., 2011: Wave modeling at the entrance of ports. *Ocean Engineering*, Vol. 38, 17-18, pp 2089-2109 http://dx.doi.org/10.1016/j.oceaneng.2011.09.002

7. Rusu, E, 2011: A MATLAB toolbox associated with modeling coastal waves. *Current Development in Oceanography*, Volume 2, Number 1, pp 17-52, http://www.pphmj.com/journals/articles/749.htm

8. Rusu, E. and Guedes Soares, C., 2010: Validation of Two Wave and Nearshore Current Models. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, Volume 136, Issue 1, January/February 2010, pp 27-45. http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000023

9. Rusu, E, 2010: Modeling of wave-current interactions at the Danube's mouths. *Journal of Marine Science and Technology*, Vol. 15, Issue 2, pp 143-159. http://dx.doi.org/10.1007/s00773-009-0078-x

10. Rusu, E. and Guedes Soares C., 2009: Numerical modeling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. *Renewable Energy*, Elsevier, Volume 34, Issue 6, pp 1501-1516, http://dx.doi.org/10.1016/j.renene.2008.10.027

11. Rusu, E, 2009: Wave energy assessments in the Black Sea. *Journal of Marine Science and Technology*, Springer, Volume 14, Issue 3 pp. 359-372. http://dx.doi.org/10.1007/s00773-009-0053-6

12. Rusu, E. and Macuta, S., 2009: Numerical Modelling of Longshore Currents in Marine Environment. *Environmental Engineering and Management Journal*, January/February 2009, Vol.8, No.1, pp 147-151. http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no1/33_Rusu.pdf

13. Rusu, E., Conley, D.C. and Coelho, E.F., 2008: A Hybrid Framework for Predicting Waves and Longshore Currents. *Journal of Marine Systems*, Volume 69, Issues 1-2, pp 59–73. http://dx.doi.org/10.1016/j.jmarsys.2007.02.009

14. Rusu, E., Guedes Soares C. and Pilar, P., 2008: Evaluation of the Wave Conditions in Madeira Archipelago with Spectral Models. *Ocean Engineering*, Volume 35, Issue 13, September 2008, pp 1357-1371 http://dx.doi.org/10.1016/j.oceaneng.2008.05.007
Observation: this article is included as reference in the homepage of the SWAN model, http://swanmodel.sourceforge.net/ (section SWAN related publications, position 37).

15. Rusu, E., Silva, R. Soares, C.V. and Rusu, L., 2003: Wave Forecast in the Coastal Environment Affected by M/V Prestige Breakdown, Thalassas International Journal of Marine Science, Madrid, Spain, pp 161-162. http://geoma.net/ediciones/thalassas1.pdf
Vol 19 (3), Special issue containing the papers presented at the 4th Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July. (work included in the database http://www.noc.soton.ac.uk/gg/EUROSTRATAFORM/resources/portug_ref.html)

16. Pinto, J. P., Rusu, E., Silva, R. and Soares, C.V., 2003: Large Scale Wave Model Predictions for the Iberian Western Coast. *Thalassas – An International Journal of Marine Science*, Vol 19 (3), pp 159-160, Special issue containing the papers presented at the 4th Symposium on the Atlantic Iberian Continental Margin, Vigo, Spain, 7-10 July. http://geoma.net/ediciones/thalassas1.pdf

17. Onofre, M., Vitorino, J., Pinto, J.P. and Rusu, E., 2003: Apoio Ambiental ao SWORDFISH 2003 (The Environmental Support to the Exercise SWORDFISH 2003). *Boletim de Intstituto Hidrográfico*, Lisbon, Portugal, Hidromar, Nº 76 Mar/Abr, pp 1-5 (in portuguese).
http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar76.pdf

18. Ezequiel, M., Soares, C.V., Baptista, R., Pacheco, B., Fernandes, S., Barata, S., Santos, Q., Almeida, S., Silva, J., Vitorino, J., Clemente, C., Silva, R., Rusu, E., Aguiar, J., 2003: O Papel do INSTITUTO HIDROGRÁFICO no Acompanhamento e Previsão da Deriva do Fuel Derramado pelo Navio Prestige (The Role Played by the Hydrographic Institute in Following and Predicting the Drift of the Oil Released by M/V Prestige). *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 16, 2002-2003, pp. 7-12 (in portuguese).
http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf
(included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf)

19. Rusu, E., Soares, C.V., 2002: Total Wave – a Tool to Assess the Nearshore Wave Conditions. *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 16, 2002-2003, pp. 25-35, http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_16.pdf

20. Rusu, E., Soares, C.V., 2001: Pre-processing and post-processing of model wave data in the nearshore. *The Annals of Instituto Hidrográfico*, Lisbon, Portugal, No 15, pp. 65-74. http://websig.hidrografico.pt/www/content/documentacao/anais/Anais_15.pdf

Articles accepted for publication

21. Butunoiu, D., Rusu, E. 2012: Sensitivity tests with two coastal models, *Journal of Environmental Protection and Ecology, accepted May* 2012, http://www.jepe-journal.info/

22. Butunoiu, D., Rusu, E., 2012: A Matlab interface associated with modeling surface waves in the nearshore, Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue, *Journal of Environmental Protection and Ecology, accepted December 2011,* http://www.jepe-journal.info/

23. Gasparotti, C., Rusu, E., 2012: Methods for the risk assessment in maritime transportation in the Black Sea basin. Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue, *Journal of Environmental Protection and Ecology, accepted December 2011,.* http://www.jepe-journal.info/

24. Ivan, A., Gasparotti, C., Rusu, E., 2012: Influence of the interactions between waves and currents on the navigation at the entrance of the Danube delta. Protection and Sustainable Management of the Black Sea Ecosystem, Special Issue. *Journal of Environmental Protection and Ecology*, *accepted December 2011,* http://www.jepe-journal.info/

25. Butunoiu D, Onea F, Rusu E. 2012: Evaluation of the environmental conditions in the vicinity of the Romanian ports at the Black Sea. *Journal of Environmental Protection and Ecology, accepted September* 2012, http://www.jepe-journal.info/.

Observation: More than other ten works are currently under evaluation in various stages at relevant international journals.

B - PUBLICATIONS IN THE PROCEEDINGS OF RELEVANT INTERNATIONAL CONFERENCES (SELECTED)

26. Rusu, E., Onea, F., 2012: Wave Energy Evaluations in Enclosed Seas. *8th WSEAS International Conference on Energy, Environment, Ecosystems and Sustaunable Development* (EEESD '12), Faro, Portugal.
http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-01.pdf

27. Ivan, A., Rusu, E., 2012: Assessment of the navigation conditions in the coastal sector at the entrance of the Danube Delta, *12th International Multidisciplinary Scientific GeoConference* (SGEM2012), Albena, Bulgaria. http://www.sgem.org/

28. Onea, F., Rusu, E., 2012: Evaluation of the Wind Energy Resources in the Black Sea Area, *8th WSEAS International Conference on Energy, Environment, Ecosystems and Sustaunable Development* (EEESD '12), Faro, Portugal.
http://www.wseas.us/e-library/conferences/2012/Algarve/EEESD/EEESD-02.pdf

29. Toderascu, R., Rusu, E., 2012. Implementation of a global circulation modeling system for the Black Sea basin. *Proceedings of the 12th International Multidisciplinary Scientific GeoConference*, Albena, Bulgaria (SGEM2012). http://www.sgem.org/

30. Rusu, E. and Guedes Soares, C., 2011: Assessment of the wave energy in two enclosed seas, proceedings of MARTECH 2011 - *1st International Conference on Maritime Technology and Engineering*, Lisbon, 10-12 May 2011. http://www.mar.ist.utl.pt/martech2011/structure.aspx

31. Rusu, E., Gonçalves, M and Guedes Soares, C., 2011: Study of the wave transformation in the central part of the Portuguese nearshore with high resolution models, proceedings of MARTECH 2011 - *1st International Conference on Maritime Technology and Engineering*, Lisbon, 10-12 May 2011. http://www.mar.ist.utl.pt/martech2011/structure.aspx

32. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2011: Evaluation of the wave models SWAN and STWAVE in shallow water using nested schemes, proceedings of MARTECH 2011 - *1st International Conference on Maritime Technology and Engineering*, Lisbon, 10-12 May 2011.
http://www.mar.ist.utl.pt/martech2011/structure.aspx

33. Rusu, E. and Butunoiu, D., 2011: Parallel evaluation of the wave energy in Black Sea. *International Environmental Conference - Sustainable Development in Coastal Areas*, 29 June – 1 July, Ioannina, Greece. http://www.benaweb.gr/index-2.html

34. Rusu, E., Gonçalves, M. and Guedes Soares, C., 2011: Avaliação da transformação de ondas em ambientes costeiros e áreas portuárias com os modelos SWAN e FUNWAVE. proceedings of *7as Jornadas Portuguesas de Engenharia Costeira e Portuária*, Porto, Portugal, 6-7 October, Ed. CD, 12p. http://www.lnec.pt/organizacao/dha/npe/pdfs/BoletimA4_V2.pdf

(included also in: http://www.mendeley.com/research/jornadas-portuguesas-engenharia-costeira-e-porturia-porto-6-e-7-outubro-2011-avaliao-da-transformao-ondas-em-ambientes-costeiros-e-reas-porturias-com-os-modelos-swan-e-funwave/)

35. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2010: Comparações entre os modelos SWAN e STWAVE na área costeira do Porto de Leixões, proceedings of 1as Jornadas de Engenharia Hidrografica, Lisbon, 21-22 June 2010, 277-280. http://www.marinha.pt/PT/noticiaseagenda/noticias/Documents/BoletimIasJornadasEngenharia.pdf

36. Toderaşcu, R. and Rusu, E., 2010: Development of a joint system based on numerical models to provide environmental support in the Black Sea, *Global Change Research II: Environmental Crisis, Energy Issues and Global Regulation Policies*, 11-16 June 2010, IGESA, Porquerolles Island, France. http://www.esf.org/index.php?id=6339

37. Toderaşcu, R. and Rusu, E., 2010: Implementation of a joint modeling system to provide support in the prediction of the extreme environmental events in the Black Sea, *ESF-COST High-Level Research* Conference, Extreme Environmental Events, 13-17 December 2010, Selwyn College, Cambridge, United Kingdom. http://www.esf.org/index.php?id=7048

38. Rusu, E. and Onea, F., 2010: Assessment of the spatial distribution of the wave energy in the Black Sea with numerical models, *Tenth International Conference on Marine Sciences and Technologies* - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 388-393, http://nts.tea.bg/

39. Onea, F., Rusu, E. and Strat, I., 2010: Evaluation of the wave energy potential in the Black Sea using remotely data, *Tenth International Conference on Marine Sciences and Technologies* - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 375-380, http://nts.tea.bg/

40. Rusu, E. and Ivan, A., 2010: Evaluation of the extreme waves at the entrance of the Danube Delta, *Tenth International Conference on Marine Sciences and Technologies* - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 331-337 , http://nts.tea.bg/

41. Ivan, A., Gasparotti, C. and Rusu, E., 2010: Dynamics of the environmental matrix at the entrance of the Danube Delta, *Tenth International Conference on Marine Sciences and Technologies* - BLACKSEA2010, 7-9 October, Varna, Bulgaria, 338-343, http://nts.tea.bg/

42. Rusu, E. and Butunoiu, D. 2009: Wave modeling in the proximity of Constanta harbour, Proceedings of the *13th International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources* - IMAM2009, Istanbul, Turkey, Vol. 2, 633-640. http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf

43. Ivan, A. and Rusu, E., 2009: Wave-Current Interactions at the Entrance of the Danube Delta, Proceedings of the *13th International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources* - IMAM2009, Istanbul, Turkey, Vol. 3, 875-882. http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf

44. Macuta, S. and Rusu, E., 2009: Experimental researches regarding the evolution of some parameters of the superficial layer in low cycle fatigue processes, Proceedings of the *13th International Congress of Maritime Transportation and Exploitation of Ocean and Coastal Resources* - IMAM2009, Istanbul, Turkey, Vol. 1, Pp 125-128. http://www.imam2009.itu.edu.tr/files/IMAM_2009.pdf

45. Bento, A. R., Rusu E. and Guedes Soares, C., 2009: Wave modelling at the entrance of Leixões harbour, *6º Simposio sobre el Margen Ibérico Atlántico* MIA09, Oviedo, Spain, 1-5 December 2009. http://www.unioviedo.es/mia09/descargas/1-circular-MIA-port.pdf

46. Gonçalves, M., Rusu, E. and Guedes Soares, C., 2009: Comparações entre os modelos SWAN e STWAVE na area costeira de Obidos, *6as Jornadas Portuguesas de Engenharia Costeira e Portuária*, Funchal, 8-9 October 2009.

47. Silva, D., Rusu E., and Guedes Soares, C., 2009. Modelação das condições marítimas na zona costeira da Figueira da Foz, com o modelo espectral SWAN, *6as Jornadas Portuguesas de Engenharia Costeira e Portuária*, Funchal, 8-9 October 2009.

48. Rusu, E. and Guedes Soares C., 2008: Wave Energy Assessments in the Coastal Environment of Portugal Continental, the *27th International Conference on Offshore Mechanics and Arctic Engineering* **-** OMAE2008, June 15-20, 2008, Estoril, Portugal, Vol. 6, 761-772. http://dx.doi.org/10.1115/OMAE2008-57820 (included also in http://www.lw20.com/2011122692383074.html)

49. Rusu, E. Pilar, P and Guedes Soares, C., 2007: Avaliações da agitação marítima e deriva litoral junto à costa portuguesa (Predictions of waves and waves induced currents in the Portuguese nearhore), *5as Jornadas Portuguesas de Engenharia Costeira e Portuária* (in portuguese).

50. Rusu, E., Pilar, P. and Guedes Soares, C., 2007: Avaliação com modelos espectrais das condições de agitação marítima no Arquipélago da Madeira (Evaluation of the wave conditions in Madeira Archipelago with spectral models), *IV Congresso sobre Planeamento e Gestão das Zonas Costeiras dos Países de Expressão Portuguesa*, Funchal, (in portuguese).

51. Rusu, E., Rusu, L. and Guedes Soares, C., 2006: Assessing of Extreme Wave Conditions in the Black Sea with Numerical Models, paper presented and published in the proceedings at the *9th International Workshop on Wave Hindcasting and Forecasting*, Victoria, Canada, September, 2006. http://www.waveworkshop.org/9thWaves/

52. Conley, D.C., and Rusu, E., 2006: The Middle Way of Surf Modeling, paper presented and published in the proceedings at the *30th International Conference on Coastal Engineering* - ICCE 2006, 2-9 September, San Diego, USA. Published in Coastal Engineering World Scientific Pub Co Inc Published 2007/07, Vol. 1, pp. 1053-1065. http://eproceedings.worldscinet.com/9789812709554/9789812709554_0090.html

53. Rusu, E and Ventura Soares, C., 2005: Post Prestige Developments for the Wave Modeling Techniques in the Coastal Environment of Portugal, *Fifth International Symposium* - WAVES2005, 3rd – 7th July 2005, Madrid, Spain, Paper number 169, CD edition, 10p. http://www.cedex.es/waves2005/

54. Guedes Soares, C. and Rusu, E., 2005: SWAN Hindcast in the Black Sea, *Fifth International Symposium* - WAVES 2005, 3rd – 7th July 2005, Madrid, Spain, Paper number 155, CD edition, 11p. http://www.cedex.es/waves2005/.

55. Rusu, E., Soares, C.V., Pinto, J. P. and Silva, R., 2004: Extreme Events and Wave Forecast in the Iberian Nearshore, presented at the *29th International Conference on Coastal Engineering* - ICCE2004, Lisbon, 19-24 September, published in Coastal Engineering World Scientific Pub Co Inc Published 2005, Vol. I, pp. 727-739. http://eproceedings.worldscinet.com/9789812701916/9789812701916_0058.html

56. Silva, R., Jorge da Silva, A., Rusu, E., Oliveira, F., Larangeiro, S., Taborda R., 2004: Evaluation of the Longshore Current for a Sector of the Portuguese West Coast: Application of Different Methodologies, presented at the *29th International Conference on Coastal Engineering* - ICCE2004, Lisbon, 19-24 September, published in Coastal Engineering World Scientific Pub Co Inc Published 2005, Vol. II, pp. 1455-1467. http://eproceedings.worldscinet.com/9789812701916/9789812701916_0116.html

57. Rusu, E., Jorge da Silva, A., Ventura Soares, C., Silva, R., Gomes, F., Sancho, F., 2004: Assessments of the Wave Induced Circulation in the Portuguese Nearshore, poster presentation, Section Operational Oceanography, the *1st EGU General Assembly*, Nisa, France. http://www.cosis.net/abstracts/EGU04/03882/EGU04-J-03882.pdf

58. Rusu, E., Matulea, I. and Rusu, L., 2004: Linear and Non Linear Models to Assess the Wave Induced Currents in the Nearshore, *Seventh International Conference on Marine Sciences and Technologies* (BLACKSEA2004), Varna, Bulgaria, Bulgaria, pp. 151-158.

59. Rusu, E., Rusu, L. and Matulea, I., 2004: Prediction of the Nearshore Wave Propagation with Spectral Models, *Seventh International Conference on Marine Sciences and Technologies* (BLACKSEA2004), Varna, Bulgaria, pp. 142-150.

60. Gomes, F., Bessa Pacheco, M., Jorge da Silva, A., Silva, R., Rusu, E., 2004: Using SIG to estimate the nearshore circulation, *Proceedings of the* Conference EUE2004, 17-19 November, Lisbon, Portugal, pp. 66-75 (in portuguese), http://www.igeo.pt/servicos/DPCA/biblioteca/publicacoesIGP/ESIG_2004/p028.pdf

61. Gomes, F., da Silva, J., Bessa Pacheco, M., Silva, R., Rusu, E., 2004: Medição das Correntes Induzidas pela Agitação Marítima em Ambiente Costeiro: Aplicação de Ferramentas de SIG. (Measurement of the Wave Induced Currents in Coastal Environment: Application of SIG tools. EUE 2004, *3.º Encontro Nacional de Utilizadores ESRI*. 2004, (included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

62. Gomes, F., Bessa Pacheco, M., da Silva, J., Silva, R., Rusu, E., 2004: Using GIS in the evaluation of wave induced currents in the Portuguese nearshore. Poster to *1st European Geosciences Union General Assembly*. 2004. Nice, France;
(included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

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(included also in http://adsabs.harvard.edu/abs/2003EAEJA....13325V).

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68. 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, (Lusowaves-Implementation of an Operational System for Wave Prediction in the Portuguese Nearshore), *3as Jornadas Portuguesas de Engenharia Costeira e Portuaria*, Aveiro 13-14 November, 2003 15p, CD edition, (in portuguese). (work mentioned in Hidromar/2003/p13 http://websig.hidrografico.pt/www/content/documentacao/hidromar/2003/hidromar80.pdf)

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http://websig.hidrografico.pt/www/content/documentacao/hidromar/2002/hidromar69.pdf)

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80. Rusu, E., Coelho, E.F., 2000: A Model to Estimate the Wave Conditions in the Portuguese Nearshore, *Proceedings of the 3rd Symposium on the Atlantic Iberian Continental Margin*, Faro, Portugal, 25-27 Septembe, pp.99-100.
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C - BOOKS OR BOOK CHAPTERS (SELECTED)

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https://www.novapublishers.com/catalog/product_info.php?products_id=15888

85. Rusu, E. and Butunoiu, D., 2011. Wave Modeling in Coastal Zones with Application to the Romanian Nearshore, Publishing House of the Romanian Technical Academy and General Association of the Romanian Engineering - AGIR Ed., Bucharest, 325p (in Romanian).
http://www.agir.ro/carte/modelarea-valurilor-in-zonele-costiere-cu-aplicatii-la-litoralul-romanesc-111117.html

86. Rusu, E. and Zanopol, A, 2009. Modelling the nearshore currents, Galati University Press, 211p.

87. Rusu, E. Pilar, P and Guedes Soares, C., 2008: Development of a Wave Prediction System for the Madeira Archipelago, Maritime Industry, Ocean Engineering and Coastal Resources, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. II, pp. 787-799 http://www.taylorandfrancis.com/books/details/9780415455237/

88. Macuta, S.and Rusu, E., 2008: Experimental research regarding the evolution of some parameters of the superficial layer in low cycle fatigue process, Maritime Industry, Ocean Engineering and Coastal Resources, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. I, pp. 219-224 http://www.taylorandfrancis.com/books/details/9780415455237/

89. Strat, I., Matulea, I., Rusu, E., Ionita, B., 2008: Studies on the motion of a moored floating body, Maritime Industry, Ocean Engineering and Coastal Resources, Francis & Taylor publications, London, ISBN 978-0-415-45523-7, Vol. II, pp. 897-904. http://www.taylorandfrancis.com/books/details/9780415455237/

90. Gonçalves, M., Pilar, P., Rusu, E. and Guedes Soares, C., 2008: Simulaçoes com o modelo STWAVE junto a costa Portuguesa (STWAVE simulations in the Portuguese nearshore), As Actividades Marítimas e a Engenharia, C. Guedes Soares e V. Gonçalves de Brito (Eds), Ed. Salamandra, Lisboa, 12p (in portuguese). http://www.mar.ist.utl.pt/jornadas/

91. Rusu, E. Ventura Soares, C. and Rusu, L., 2006: Computational Strategies and Visualization Techniques for the Waves Modeling in the Portuguese Nearshore, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1129-1136 http://www.taylorandfrancis.com/books/details/9780415390361/
(work included also in the database: http://www.crcnetbase.com/doi/abs/10.1201/9781439833728.ch136),

92. Conley, D.C. and Rusu, E., 2006: Tests of wave shoaling and surf models in a partially enclosed basin, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1, Vol II, pp. 1015-1021. http://www.taylorandfrancis.com/books/details/9780415390361/,

93. Matulea, I.C., Strat, I. and Rusu, E., 2006: Pipeline Installed by Free Immersion in the Black Sea Offshore Areas, Maritime Transportation and Exploitation of Ocean and Coastal Resources, Taylor & Francis publications, London, ISBN 13: 978-0-415-39036-1,Vol II, pp. 1431-1438 http://www.taylorandfrancis.com/books/details/9780415390361/,

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95. Rusu, E., Pilar, P. and Guedes Soares, C., 2006: Avaliação do modelo SWAN em águas profundas junto á costa de Portugal Continental (Evaluation of the SWAN model in deep water close to the Portuguese continental coastal environment), *As Actividades Marítimas e a Engenharia*, C. Guedes Soares e V. Gonçalves de Brito (Eds), Ed. Salamandra, Lisboa, 10p.

96. Strat, I., Rusu, E., 2001: *Mechanics,* Publishing House of the Foundation of "Dunărea de Jos" Galaţi University, 129p, (in Romanian).

97. Rusu, E., 2000: *New Techniques For Studying Wave Dynamics in Shallow Water,* Galateea Publishing House Galaţi, Romania, 85p, (in English).

98. Rusu, E., 2000: *Analytical Mechanics of Water-Waves - Numerical Methods,* Academic Publishing House, 156p, (in Romanian).

99. Rusu, E., 1998: *Classical Mechanics,* vol. II, *Analytical Dynamics,* Publishing House of University *"Dunarea de Jos"* of Galati, 182p, (in Romanian).

100. Rusu, E., 1997: *Classical Mechanics,* vol. I, *Statics and Kinematics,* Publishing House of University *"Dunarea de Jos"* of Galati, 164p, (in Romanian).

Observation: In addition to the above list of publications, more than other one hundred titles were published in Romania

D - PARTICIPATION TO RELEVANT RESEARCH PROJECTS

D1 Project responsible

NEARPORT (2009-2011) - Development of a real-time nearshore wave prediction system for the Portuguese ports, 112 000 Euro – project granted by the Portuguese Foundation for Science and Technology with EU funding (112 000 €), http://www.mar.ist.utl.pt/nearport/en/home.aspx

LUSOWAVES (2004-2008) - Development of an operational wave prediction system for the Portuguese coastal environment, individual research grant funded by the Portuguese Foundation for Science and Technology (http://www.fct.pt/index.phtml.en) with EU funding (62 000 €),
(included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

ENVIRONMENTAL GUIDE for the wave and current conditions in the Portuguese nearshore (2001-2003), individual research grant funded by the Portuguese Foundation for Science and Technology (http://www.fct.pt/index.phtml.en) with EU funding (58 000 €), (included also in http://www.iugg.org/members/nationalreports/portugal2006.pdf).

Influence of the wave conditions on the offshore operations and structures (1999). Romanian National Research Grant financed by the National Agency of Research, No. 9007/1999 item 122, (documentation in Romanian).

D2 Participation as team member, post doc fellow or expert

CCSEWAVS (2012-2014) - Estimating the effects of Climate Change on sea level and wave climate of the Greek seas, coastal vulnerability and safety of coastal and marine structures funded by the Greek state participant as international expert).

EXTREME SEAS (2011) - Design for Ship Safety in Extreme Seas,
http://www.mar.ist.utl.pt/en/centec/projects.aspx?id=1&projectid=95 DG RTD-H2-Transport, participation as post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

SAFEOFFLOAD (2011) Safe Offloading from Floating LNG Platforms http://www.mar.ist.utl.pt/safeoffload/ participation as post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

MARPORT (2007-2008) System to Forecast Wave Conditions in the Portuguese Ports https://www.apdl.pt/gca/index.php?id=1233153108 participation as post doc fellow at CENTEC - Center for Marine Technology and Engineering, Technical University of Lisbon, Portugal.

FORWARD EYE (2005), NURC-FR-2006-014, project developed at the NATO Undersea Research Centre (NURC), http://www.nurc.nato.int/, La Spezia Italy. Participation as project expert, responsible for the phase: A NATO tool for prediction of waves and longshore currents in the surf zone, http://www.nurc.nato.int/publications/reports_2006.htm

HYBRID SURF MODELING (2005), NURC-FR-2006-016, project developed at the NATO Undersea Research Centre (NURC), http://www.nurc.nato.int/, La Spezia Italy, participation as project expert
http://www.nurc.nato.int/publications/reports_2006.htm

MARSTRUCT (2004-2006) - a network of excellence on marine technology, team member from University Dunarea de Jos of Galati

MOCASSIM (2001-2004) - Development of national competences for the implementation of oceanographic models with data assimilation, http://www.hidrografico.pt/mocassim.php , team member as post doc fellow at the Hydrographical Institute of the Portuguese Navy.

Observation: participation to more than other 20 national projects (not listed)

September 2012

Eugen Rusu

Indicatori RUSU EUGEN : I_1 = 8,1532; P = 15,4133; C =26.3778;

Researcher ID: http://www.researcherid.com/rid/B-6766-2011

Conform **Ordin nr. 4478 din 23/06/2011** (Publicat in Monitorul Oficial, Partea I nr. 448 din 27/06/2011),
Standardele minimale pentru Abilitare, Domeniul Ştiinţe Inginereşti sunt:
a) pentru subdomeniul **Inginerie Mecanică** **I_1 >= 4** şi **P >= 2** şi **C >= 5,**
b) pentru subdomeniile **Inginerie Civilă** şi **Autovehicule şi Transporturi** **I_1 >= 3** şi **P >= 1.5** şi **C >= 3.**

In calcule a fost considerat Scorul relativ de influenta (revista) indicat in lista descărcată de la CNCS - ScorRelativInfluentaIanuarie2012

Verificarea indicatorilor I_1 şi P

Numărul publicaţiei	Referinţa bibliografică	s_i	n_i	p_i	s_i / n_i	s_i / p_i
1	Onea, F., **Rusu E.**, 2012: Wind energy assessments along the Black Sea basin. *Meteorological Applications*, *in press*. **ISSN: 1469-8080** http://onlinelibrary.wiley.com/doi/10.1002/met.1337/abstract	0,6112	2	-	0,3056	0
2	Rusu, E., Guedes Soares, C., 2012: Wave energy pattern around the Madeira islands. *Energy*, in press. **ISSN: 0360-5442** http://dx.doi.org/10.1016/j.energy.2012.07.013	1,9198	2	1	0,9599	1,9198
2	**Rusu, E.**, Gonçalves, M and Guedes Soares, C., 2011. Evaluation of the wave transformation in an open bay, *Ocean Engineering*, 38, 1763–1781. **ISSN 0029-8018** http://dx.doi.org/10.1016/j.oceaneng.2011.08.005	1,5600	3	1	0,5200	1,5600
3	**Rusu, E.** and Guedes Soares, C., 2011. Wave modeling at the entrance of ports. *Ocean Engineering*, 38 (17-18), pp 2089-2109. **ISSN 0029-8018** http://dx.doi.org/10.1016/j.oceaneng.2011.09.002	1,5600	2	1	0,7800	1,5600
4	**Rusu, E,** 2010. Modeling of wave-current interactions at the mouths of the Danube. *Journal of Marine Science and Technology*, 15 (2), 143-159. ISSN 0948-4280 http://dx.doi.org/10.1007/s00773-009-0078-x	1,0000	1	1	1,0000	1,0000
5	**Rusu, E**., Guedes Soares, C., 2010. Validation of Two Wave and Nearshore Current Models. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, ASCE, 136 (1), 27-45. **ISSN 0733-950X** http://ascelibrary.org/wwo/resource/1/jwped5/v136/i1/p27_s1?isAuthorized=no http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000023	2,0680	2	1	1,0340	2,0680

6	**Rusu, E.**, Guedes Soares C., 2009. Numerical modeling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. *Renewable Energy*, 34 (6), 1501-1516. **ISSN 0960-1481** http://dx.doi.org/10.1016/j.renene.2008.10.027	1,4616	2	1	0,7308	1,4616
7	**Rusu, E,** 2009. Wave energy assessments in the Black Sea. *Journal of Marine Science and Technology*, 14(3), 359-372. **ISSN 0948-4280** http://dx.doi.org/10.1007/s00773-009-0053-6	1,0000	1	1	1,0000	1,0000
8	**Rusu, E.**, Conley, D.C., Coelho, E.F., 2008. A Hybrid Framework for Predicting Waves and Longshore Currents. *Journal of Marine Systems*, 69 (1-2), 59–73. **ISSN 0924-7963** http://dx.doi.org/10.1016/j.jmarsys.2007.02.009	1,7838	3	1	0,5946	1,7838
9	**Rusu, E**., Guedes Soares C., Pilar, P., 2008. Evaluation of the Wave Conditions in Madeira Archipelago with Spectral Models. *Ocean Engineering*, 35 (13), 1357-1371. **ISSN 0029-8018** http://dx.doi.org/10.1016/j.oceaneng.2008.05.007	1,5600	3	1	0,5200	1,5600
10	**Rusu, E.**, Guedes Soares C., 2008. Wave Energy Assessments in the Coastal Environment of Portugal Continental, *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering* (OMAE2008), ASME, AMER Soc MECHANICAL ENG., New York, Vol 6, pp. 761-772. Conferinţă clasificată în categoria A de către Australian Research Council http://dx.doi.org/10.1115/OMAE2008-57820 http://www.arc.gov.au/xls/ERA2010_conference_list.xls pozitia 1160 (ERA 43481) Incepand cu 2009, seria de conferinte *International Conference on Offshore Mechanics and Arctic Engineering* (OMAE) a adoptat numele de *International Conference on Ocean, Offshore and Arctic Engineering*, pastrand acelasi acronim (http://asme-ipti.org/ooae/conferences/)	0,5000	2	1	0,2500	0,5000
11	Conley, D.C., **Rusu, E.**, 2006. The Middle Way of Surf Modeling, *Proceedings of the 30th International Conference on Coastal Engineering* (ICCE 2006), 2-9 September, San Diego, USA. Published in World Scientific Pub Co Inc, Coastal Engineering 2006, Vol. 1, pp. 1053-1065. http://dx.doi.org/10.1142/9789812709554_0090 Conferinţă clasificată în categoria A de către Australian Research Council, Pozitia 933 (ERA-ID 43249)	0,5000	2	1	0,2500	0,5000
12	**Rusu, E.**, Soares, C.V., Pinto, J. P., Silva, R., 2004. Extreme Events and Wave Forecast in the Iberian Nearshore. *Proceedings of the 29th International Conference on Coastal Engineering* (ICCE2004), Lisbon, 19-24 September, Published in World Scientific Pub Co Inc, Coastal Engineering 2004, Vol. I, pp. 727-739. http://dx.doi.org/10.1142/9789812701916_0058	0,5000	4	1	0,1250	0,5000

	Conferinţă clasificată în categoria A de către Australian Research Council, pozitia 933 (ERAID 43249) http://www.arc.gov.au/xls/ERA2010_conference_list.xls					
13	Silva, R., Jorge da Silva, A., **Rusu, E.**, Oliveira, F., Larangeiro, S., Taborda R., 2004. Evaluation of the Longshore Current for a Sector of the Portuguese West Coast: Application of Different Methodologies, *Proceedings of the 29th International Conference on Coastal Engineering* (ICCE2004), Lisbon, 19-24 September, Published in World Scientific Pub Co Inc, Coastal Engineering 2004, Vol. II, pp. 1455-1467. http://dx.doi.org/10.1142/9789812701916_0116 Conferinţă clasificată în categoria A de către Australian Research Council, pozitia 933 (ERAID 43249) http://www.arc.gov.au/xls/ERA2010_conference_list.xls	0,5000	6	-	0,0833	0,0000
					I_1	P
Total:					**8,1532**	**15,4133**

Verificarea indicatorului *C*

Numărul publicaţiei care citează	Referinţa bibliografică a publicaţiei *k* care citează	s_k	$\sum_k s_k$	n_i	$\frac{1}{n_i}\sum_k s_k$
Rusu, E., Guedes Soares C., 2009. Numerical modeling to estimate the spatial distribution of the wave energy in the Portuguese nearshore. *Renewable Energy*, 34 (6), 1501-1516. .http://dx.doi.org/10.1016/j.renene.2008.10.027			26.4196	2	13.2098
1	Akpınar, A, Kömürcü, MI, 2012. Assessment of wave energy resource of the Black Sea based on 15-year numerical hindcast data, in press, **ISSN**: **0306-2619** http://dx.doi.org/10.1016/j.apenergy.2012.06.005	2.04717			
2	Adem Akpınar; Murat Ihsan Kömürcü, 2012. Wave energy potential along the south-east coasts of the Black Sea. ENERGY, Volume 42, Pages 289-302. **ISSN 0360-5442** http://dx.doi.org/10.1016/j.energy.2012.03.057	1.9198			
3	Rusu, L., Guedes Soares, C., 2012. Wave energy assessments in the Azores islands. Renewable Energy 45, 183-196. **ISSN 0960-1481** http://dx.doi.org/10.1016/j.renene.2012.02.027	1.4616			
4	Arinaga Randi A.; Cheung Kwok Fai, 2012. Atlas of global wave energy from 10 years of reanalysis and hindcast data. RENEWABLE ENERGY, Volume 39, Issue 1, Pages 49-64. **ISSN 0960-1481** http://dx.doi.org/10.1016/j.renene.2011.06.039	1.4616			
5	Truong D. Q.; Ahn K. K., 2012. Wave prediction based on a modified grey model MGM(1,1) for real-time control of wave energy converters in irregular wave. RENEWABLE ENERGY, Volume 43, Pages 242-255. I**SSN 0960-1481** http://dx.doi.org/10.1016/j.renene.2011.11.047	1.4616			
6	Halliday J. Ross; Dorrell David G.; Wood Alan R., 2011. An application of the Fast Fourier Transform to the short-term prediction of sea wave behaviourSource. RENEWABLE ENERGY, Volume 36, Issue 6, Pages 1685-1692. **ISSN 0960-1481** http://dx.doi.org/10.1016/j.renene.2010.11.035	1.4616			
7	G. Iglesias, R. Carballo, 2011. Choosing the site for the first wave farm in a region: A case study in the Galician Southwest (Spain). ENERGY, Volume 36, Issue 9, Pages 5525-553; **ISSN 0360-5442** http://dx.doi.org/10.1016/j.energy.2011.07.022	1.9198			

8	Kim Gunwoo; Jeong Weon Mu; Lee Kwang Soo; et al., 2011. Offshore and nearshore wave energy assessment around the Korean Peninsula. ENERGY, Volume 36, Issue 3, Pages 1460-1469. **ISSN 0360-5442** http://dx.doi.org/10.1016/j.energy.2011.01.023	1.9198			
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Total:	C
	26.3778

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