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Gradul didactic: Conf.univ. dr. ing.

Instituția unde este titular: Universitatea Maritimă din Constanța

Facultatea: Facultatea Electromecanică Navală

Departamentul: de Științe Inginerești în Domeniul Mecanic și Mediu

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Doctor în domeniul Inginerie mecanică, Universitatea Maritimă din Constanța, Facultatea de Electromecanică Navală, Catedra de Inginerie Mecanică Navală, numit prin Ordinul Ministrului Educației, Cercetării și Inovării nr.4693 / 13.08.2009
Teză: „Contribuții la studiul comportamentului dinamic al sistemelor de propulsie navală sub influența factorilor de exploatare” – 200 pagini., Conducător științific: Prof. univ. dr. ing. Nicolae Buzbuchi, Perioada: 2005 – 2009.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Buzbuchi N, **Stan L.C.**, Făitar C. – *Dynamic behavior modeling and simulation of marine propulsion systems*, ISBN 978-606-681-170-5, Editura Nautica, Colectia Universitaria, Constanta, 2022;
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3. T. Dordea, **L.C. Stan**, *Generatoare de abur navale*, ISBN 978-606-681-130-9, Editura Nautica, Constanta, 2020;
4. **Stan L. C.**, *Capitolul 4, Propellers and Shafting for sustainable shipping*, pag. 55- 83, ISBN 978-1-4666-4317-8, *Marine Technology and Sustainable Development / IGI Global seria Advances in Environmental Engineering and Green Technologies* ISSN 2326-9162, www.igi-global.com, 2014
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 6. **Stan, L.C.**, Calimanesu I., Faităr, C., *Seismic qualification by analysis of a nuclear class horizontal pressure vessel*, 9th International Conference on Thermal Equipments, Renewable Energy and Rural Development, TE-RE-RD 2020, ISSN: 25550403, E3S Web Conf., Volume 180 (2020), DOI: 10.1051/e3sconf/202018001001, 24 July 2020, https://www.e3s-conferences.org/articles/e3sconf/abs/2020/40/e3sconf_te-re-rd2020_01001/e3sconf_te-re-rd2020_01001.html
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 14. Faitar C, **Stan L.**, Nedelcu A T, *CONSIDERATIONS ON ECONOMIC AND ECOLOGICAL ANALYSIS OF NAVAL PROPULSION SYSTEMS*, ModTech 2018, Book abstracts Paper ID: G-19, pag 275, IOP Conference Series: Materials Science and Engineering, International Conference on Modern Technologies in Industrial Engineering IV,



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33. Memet Feiza, **Stan Liviu** –“*CHALLENGES AND ALTERNATIVES FOR THE REFRIGERATED TRANSPORT IN DEVELOPING COUNTRIES*”, Conference: 7th International Conference on Management of Technological Changes, Location: Alexandroupolis, GREECE, Date: SEP 01-03, 2011, WOS:00030694000020, http://apps.webofknowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=3&SID=D3IAbulKlqpIcexVyPS&page=2&doc=14
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31. **L. Stan**, N. Buzbuchi, M. Feiza - *Human errors and oil pollution from tankers*, International Maritime Lecturers' Association, 16th Conference on MET "Safety, Security and Quality Objectives of MET Institutions", IMLA 16, 14-17 October 2008, Izmir, Turkey, ISBN 978-975-441-256-7;
32. **L Stan** – *Electronic cylinder lubrication system of the intelligent engine*, The annual international scientific conference of pedagogic staff and scientific researchers second edition – Education and Academic Research Structures of the Knowledge – Based Society, Section Engineering Sciences, Vol. 1, pag. 347 – 351, Alma Mater University of Sibiu, ISSN 1844-5381, 22 – 24 May, Sibiu, 2008;
33. **L Stan** – *Maritime cryogenics applications based of thermodynamic processes*, The annual international scientific conference of pedagogic staff and scientific researchers second edition – Education and Academic Research Structures of the Knowledge – Based Society, Section Engineering Sciences, Vol. 1, pag. 358 – 366, Alma Mater University of Sibiu, ISSN 1844-5381, 22 – 24 May, Sibiu , 2008;
34. Sabau A, **Stan L**, - *Modelarea cineticii chimice a procesului de ardere considerand reactiile de disociere a principalilor produși de ardere*, Academia fortelor aeriene "Henri Coanda" Brasov, Volumul II , pag. 622 - 629, ISBN 978-973-8415-45-4, 2007;
35. **Stan L**, Sabau A, - *Modelarea termo – gazodinamica a procesului de comprimare*, Academia fortelor aeriene"Henri Coanda" Brasov, Volumul II, pag. 666 – 673, ISBN 978-973-8415-45-4, 2007;
36. **L Stan** – *Tehnici de depoluare marina*, Conferința Internațională „ACVADEPOL” , Galați, România, 2006;



E. Brevete obținute în întreaga activitate

1. Calimanescu, I., Stan, L.C., *Turbina eoliană cu rotor cu axorizantal amplasat într-un tub de vânt și cu capcană reglabilă de vânt*, Brevet de inventive nr. A 2012 00666 /20.09.2012, publicat în Buletinul oficial de Proprietate Industrială –Sectiunea Inventii Nr. 3, RO-BOPI 3/2014, din 28.03.2014, pg19 $P2.2 = 2 * (0.2 + 0.5) = 1.4$ https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2014/bopi_inv_03_2014.pdf
2. Calimanescu, I., Stan, L.C., *Elice de propulsie acvatică cu pale cu ajutaje laterale și dorsale, cu rezistență hidrodinamică diminuată*, Brevet de inventive nr. A 2012 00667 /20.09.2012, publicat în Buletinul official de Proprietate Industrială –Sectiunea Inventii. RO-BOPI 3/2014, din 28.03.2014, pg19, $P2.2 = 2 * (0.2 + 0.5) = 1.4$, https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2014/bopi_inv_03_2014.pdf
3. Calimanescu, I., Stan, L.C., *Ferma de producere a energiei electrice din energia valurilor*, Brevet de inventive nr. A 2012 00666 /20.09.2012, publicat în Buletinul official de Proprietate Industrială –Sectiunea Inventii Nr. 3, RO-BOPI 3/2014, din 28.03.2014, pg25, $P2.2 = 2 * (0.2 + 0.5) = 1.4$, https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2014/bopi_inv_03_2014.pdf

F) Proiecte/contracte/granturi de cercetare-dezvoltare-inovare:

A) obținute prin competiție pe bază de contract/grant internaționale

A.1. Director proiect în cadrul proiectului “*BLOW*” - *Black sea fLloating Offshore Wind*, Project no: 101084323 — BLOW — HORIZON-CL5-2021-D3-03, Durata proiectului: 5 ani - 01.01.2023-31.12.2027, Total buget proiect=21242888 euro, din care UMC 421875 euro;

A.2. Responsabil UMC în grupul de lucru proiectul “*RoNoMar*” - *Romanian Norwegian Maritime Project, Componenta 2 – Educație și Dezvoltare Cursuri IMO*, Promotor proiect: Universitatea Maritimă din Constanța 2010-2012, Membri proiect Cornel Panait, Ghiorghe Batrînca, Per Erik Dalen, Vergil Chitac, Hans Petter Hildre, Harald Kjelstad, Gabriel Raicu, Liviu Stan și colaboratorii, Bugetul proiectului - EUR 4,708,000, Grant: EUR 4.000.000, **Buget Componenta a-II-a- EUR 752680**, <http://www.ronomar.ro> , <https://eeagrants.org/archive/2004-2009/projects/2008/111922>

A.3. Membru în proiectul internațional - „Green energy cluster – Constanța-Dobrich” – MIS-ETC Code 328, denumirea postului: Inginer maritim, perioada Decembrie-Iunie 2015, Bugetul proiectului = 141977 Eur;

A.4. Membru în proiectul “*SKILL SEA*” - *Future Proof Skills for the Maritime Shipping Sector - Key Action 2: Sector Skills Alliance - TEACHER/TRAINER*, Project no: 601186-EPP-1-2018-1-NL-EPPKA2-SSA-B

Perioada derulare:2019-2022, Bugetul proiectului:36120 euro

A.5. Membru în proiectul “*MINE-EMI*”-*Maritime Innovative Network of Education for Emerging Maritime-KA 203-077463*, Project no. 1-Tr01-KA 203-077463 (2019-2022), Valoare buget proiect=45019 euro;

A.6. Membru în proiectul “*MAReD*”- *Modernizing and harmonizing maritime education in Montenegro and Albania - RESEARCHER/TEACHER*, 544257-TEMPUS-1-2013-1-ME-TEMPUS-JPCR (2013-4538/001-001), Perioada derulare:2013-2016, Valoare buget proiect=36120 euro;

A.7. Membru în proiectul “*MEP*” – *Maritime Education Platform*, - NL/08/LLP-LdV/TOI/12, – 2008-1-NL1-LEO05-00477, Membru al echipei Universității Maritime Constanța în cadrul proiectului Leonardo da Vinci, STC-Group Rotterdam, Gabriel Raicu, Eugen Barsan, Radu Hanzu, Alexandra Niță, Ramona Bejan, Liviu Stan - Director de proiect UMC: S.L. ing. dr. Raicu Gabriel,2008

A.8. Membru în proiectul - “*Maricomp*” - *Developing the Competencies of Maritime Lecturers*, Contract de cercetare științifică European Leonardo da Vinci, Contract No. DK/06/B/F/PP – 145 617, Gabriel Raicu, Acomi Nicoleta, Alexandra Niță, Arsenie Paulica, Liviu Stan, membri al echipei Universității Maritime Constanța în cadrul proiectului, durata 2006-2008, Promotor proiect: Academia Maritimă Internațională Svendborg, SIMAC Danemarca





B) obținute prin competiție pe bază de contract/grant nationale

B.1 Director / Membru in cadrul Proiectului de cercetare – GRANT CNCISIS A/419 Cod 1-Comisia 2 „Modelarea numerică a fenomenelor termogazodinamice, mecanice, a funcționării motoarelor cu ardere internă navale și a sistemelor auxiliare ale acestora”. **Director de proiect: Faza I Stan Liviu/ Faza II și III Prof. univ. dr. ing. Nicolae Buzbuchi** Valoarea totala proiectului:100.000 RON (faza I = 30000 Ron, faza a II 30000 Ron, faza a IIIa 40000 Ron)

B.2 Membru in proiectul : *Creșterea echității sociale în învățământul superior de marină în vederea incluziunii sociale, egalității de gen, nediscriminării și sporirii accesului la învățământul superior*, 3302_CNFIS-FDI2022_0440/30.06.2022. Valoare buget proiect=252.000 LEI (50974 Euro , 1euro=4.9437), Perioada de desfasurare 2023;

B.3 Membru in proiectul *Imbunatatirea calitatii activitatii didactice, a deontologiei si eticii academice prin dezvoltarea unor instrumente de integrare a resurselor si infrastructurilor de cercetare si academica*, Proiect no: **CNFIS-FDI 2019-0783**, Bugetul proiectului: 33545 euro, Perioada de desfasurare 2019;

B.4. Membru in proiectul “*DIDAETIC*” - *Imbunatatirea calitatii activitatii didactice din UMC prin respectarea deontologiei si eticii academic*, **CNFIS-FDI-2018-0483**, Bugetul proiectului: 127778 euro, Perioada de desfasurare 2018;

B.5 Membru in cadrul Proiectului “*SMIS 130366 - Un viitor mai sigur pentru studenți*”, POCU/626/6/13/130366, Valoare

C) contracte de cercetare cu mediul socio-economic

D) alte lucrări de cercetare-dezvoltare, după caz.

D.01. L Stan, - Raport de cercetare științifică nr.1- Elemente de dinamică a motoarelor cu ardere internă navale in contextul fenomenelor dinamice de la bordul navei, Universitatea Maritima din Constanta, 91 pag. A4, Noiembrie 2007;

D.02. L Stan, - Raport de cercetare științifică nr.2 - Vibrații individuale și cuplate ale liniilor de arbori antrenați de motoarele navale. Concepte moderne în ameliorarea comportamentului dinamic al motoarelor navale, Universitatea Maritima din Constanta, 135 pag. A4, Februarie 2008;

G) Premii

G.01 Premiul „Viceamiral ing. Grigore MARTES” în domeniul Știința și Tehnică de Marină pentru cartea „Procese și Caracteristici ale Motoarelor Navale”, București, 07 Mai 2009;

G.02 Mențiune, Editia a XI-a a Conferinței Internaționale a Universității “Politehnica” din Timisoara, Mai 2007;

G.03 Locul II, Sesiunea de Comunicări Științifice ‘Universitatea Maritimă’, martie 2003;

G.04 Locul I, Sesiunea de Comunicări Științifice Internationale “ Mircea cel Bătrân”, Mai 2000;

G.05 Locul II, Sesiunea de Comunicări Științifice “Universitatea Maritimă “, Februarie 2000;

H) Membru în asociații științifice și profesionale

H.01 Membru al Asociației Romane de Tensometrie (ARTENS)

H.02 Membru al Asociației Internaționale a Lectorilor din Marină (IMLA)

H.03 Membru al Societății Romane a Termotehnicienilor

H.04 Membru IMSF- International Marine Simulator Forum

H.05 Membru in Professional Association in Modern Manufacturing Technologies, 2013

I) Altele neprecizate mai sus.



9.1 Chairman

9.1.1 Chairman la conferința internațională ModTech 2018, Section G: Maritime Engineering and Navigation, 13-16 June 2018

Chairs : **Liviu Constantin Stan**, Leonard Domnisoru

9.1.2 Chairman la conferința internațională ATOM-N 2014, Posters Session 2, 23 august 2014

Chairs : **Liviu Constantin Stan**, Mirel Paun

9.2 Membru în

9.2.1 member of the IMOLC and newly planned its Working Group IMO - STCW, London, UK, for the term April 2010 - March 2014, proposed by V. Admiral Craine as the Head of IMOLC.

9.3 Cursuri postuniversitare:

9.3.1 Certificat de absolvire a programului de instruire „Examinarea și evaluarea competențelor personalului navigant”, Constanta, CERONAV, Decembrie 2012, 2017

9.3.1 Certificat training in domeniile (Ceronav, Constanta, 2011, 2017):

Prevenirea poluarii mediului marin – MARPOL 73/78

Competențe în utilizarea mijloacelor de salvare și supraviețuire cu excepția barcilor rapide de salvare

Tehnici individuale de supraviețuire pe mare

Primul ajutor medical

Prevenirea și lupta contra incendiilor – nivel avansat

Protecție individuală și responsabilități sociale la bordul navelor

Limba engleză maritimă

Transportul marfurilor periculoase

9.3.1 Certificat de absolvire al cursului „Utilizarea simulatoarelor în procesul de instruire”, Constanta, 2011

9.3.2 Certificat de absolvire al cursului „Maritime English”, World Maritime University Sweden, 06.06.2011 – 10.06.2011;

9.3.3 Certificat de absolvire al cursului „Inspector Protecție Civilă”, Constanta, Martie 2011;

9.3.4 Certificat de absolvire al cursului „ORACLE University Course – Advanced Project Management in Primavera P6”, Constanta, 21 – 25 Februarie 2011;

9.3.5 Certificat training in domeniul „Safety and survival equipments and training tool” în cadrul 57th IASST International Meeting and safety Seminar, CERONAV, Constanta, 17- 21 Septembrie 2010;

9.3.6 Certificat training in domeniul „Planned Maintenance System (PMS), AMOS – Maintenance & Purchase REFMAN – Shipboard Defect Recording” în concordanță cu Codul ISM, Certificat nr. PMS – AMOS /2010-030, Constanta, 26 - 27 Iunie 2010

9.3.7 Certificat training in domeniul „OCIMF/SIRE – VIQ Training Course – Vessel Inspection Questionnaire for Oil Tankers, Combustion Carriers, Shuttle Tankers, Chemical Tankers & Gas Carriers Training Course and Incident Awareness Course” în concordanță cu STCW 95 / B VIII/2, Certificat nr. VIQ / 2010-96, Constanta, 24 - 25 Iunie 2010

9.3.8 Certificat training in domeniul „Port State Control – Introduction to Port State Control harmonized inspection procedures” în concordanță cu STCW 95 / B VII/2, Certificat nr. PSC/2010/058, Constanta, 23 Iunie 2010

9.3.9 Certificat training in domeniul „An Introduction to TSM Health, Safety, Security, Environmental and Quality Management System (HSSEQ)” în concordanță cu STCW 95 / B VIII/2, Certificat nr. HSSEQ/2010-014, Constanta, 22 Iunie 2010

9.3.10 Certificat de atestare instructor al „Poligonului de instruire privind Prevenirea și lupta contra incendiilor” MSA Safety Romania, Cert. No. MSA/120710/ 076, Constanta, 12-15 Iulie 2010

9.3.11 Certificat de atestare instructor pentru training „Trainer For Trainers Engine Room Simulator” Kongsberg



Norway, Constanta, 03-04 iunie 2010

- 9.3.12 Certificat de atestare instructor pentru utilizarea Simulatorului Compartiment Masina, Kongsberg Norway, Constanta, 31 Mai- 03 iunie 2010
- 9.3.13 Certificat de atestare instructor pentru „Maritime Training and Education open learning scheme” – The Nautical Institute - Ireland Branch, 23.11.2009 – 15.03.2010
- 9.3.14 Certificat de atestare instructor pentru training IMO model course 6.09 „Instructor IMO” – CERONAV Constanta, 2010
- 9.3.15 Certificat de absolvire al cursului „Utilizarea noilor tehnologii pentru activitatea de cercetare”, Constanta, 13.12.2010 – 16.12.2010;
- 9.3.16 Certificat de absolvire al cursului „Formare si dezvoltare material didactic”, Constanta, 15.11.2010 – 18.11.2010;
- 9.3.17 Certificat de absolvire al cursului „Managementul resurselor umane din invatamantul universitar de marina”, Constanta, 06.10.2010 - 09.10.2010;
- 9.3.18 Certificat de absolvire al cursului „Marine Resources Management” – Swedish Club, Constanta, 07.09.2009 – 09.09.2009;
- 9.3.19 Certificat de absolvire al cursului „Bridge Team and Resource Management”, Constanta, 20.07.2009 – 24.07.2009;
- 9.3.20 Auditor Intern al Sistemelor de Calitate a Managementului SR ISO 9001:2008, Constanta, 2009
- 9.3.21 Instructor al Simulatorului de Marfuri Lichide, Constanta, 2008
- 9.3.22 Certificat training in domeniile (Constanta, 2008, 2013, 2017):
Familiarizare tancuri (Petrolier, Chemical, LPG)
Specializare tancuri petroliere
Specializare tancuri chimice
Specializare tancuri LPG
- 9.3.23 Assessment Methods and Techniques, Det Norske Veritas, Singapore, 2008
- 9.3.24 Instructor acreditat ANR pentru cursul „Engine Team and Resources Management”, Constanta, 2008
- 9.3.25 Certificat pentru examinarea si evaluarea competentelor profesionale din domeniul transportului naval si activitati conexe, Constanta, 2007
- 9.3.26 Engine Team and Resources Management, UMC, Constanta, 2007
- 9.3.27 Diploma de absolvire – Manager de proiect, CNFPA, Bucuresti, 2006
- 9.3.28 Certificat training in domeniile (Constanta, 2006):
Prevenirea poluarii mediului marin – MARPOL 73/78
Competente in utilizarea mijloacelor de salvare si supravietuire cu exceptia barcilor rapide de salvare
Tehnici individuale de supravietuire pe mare
Primul ajutor medical
Prevenirea si lupta contra incendiilor – nivel avansat
Protectie individuala si responsabilitati sociale la bordul navelor
Limba engleza maritima
Transportul marfurilor periculoase
- 9.3.29 Diploma de absolvire al programului de perfectionare Manager al Sistemelor de Management de Mediu, Constanta, 2005
- 9.3.30 Brevet de Ofiter Mecanic I Maritim (nivel managerial), Constanta, 2005
- 9.3.31 Instructor Simulator Compartiment Masina, Horten, Norway, 2003
- 9.3.32 Instructor tehnician Simulator Compartiment Masina, Horten, Norway, 2003

Data: 16.10.2023

Semnătura: