



**Curriculum vitae  
Europass**



**Personal information**

First name(s) / Surname(s) **Adrian Lungu**  
 Address(es) „Dunarea de Jos” University of Galati, Faculty of Naval Architecture, 111 Domneasca Street  
 RO-800201, Galati, Romania  
 E-mail adrian.lungu@ugal.ro  
 Nationality Romanian  
 Date of birth 07.04.1959

**Competences Ship Hydrodynamics, Computational Fluid Dynamics**

**Work experience**

Dates	2000-present	1995-2000	1996-1998	1991-1995	1991-1994	1987-1991	1984-1987
Name and address of employer	”Dunărea de Jos” University of Galati, 47 Domneasca Street, Galati RO-800008	”Dunărea de Jos” University of Galati, 47 Domneasca Street, Galati RO-800008	SMU Dallas TX, USA 75275-0337, USA	”Dunărea de Jos” University of Galati, 47 Domneasca Street, Galati RO-800008	Hiroshima University, Japan, 1-4-1 Kagamiyama, Hiroshima, 725, Japan	”Dunărea de Jos” University of Galati, 47 Domneasca Street, Galati RO-800008	Galati Shipyard, Portului Street
Main activities and responsibilities	Eduaction, research	Eduaction, research	Eduaction, research	Eduaction, research	Research	Eduaction, research	Shipbuilding
Occupation or position held	Professor	Associate professor	PD Fellow, Visiting Professor	Lecturer	Researcher	Assistant professor	Naval Architect

**Education and training**

Dates	1991-1994	1984-1985	1979-1984
Title of qualification awarded	Ph.D. diploma with Honour, Grad. School of Engineering, Hiroshima University, Japan	Postgraduate Diploma, Postgraduate studies, Galati University	Diploma de inginer, Faculty of Mechanical Engineering, Galati University

**Membership of Academies and professional bodies:**

- European Academy of Sciences and Arts – Full active member
- ASME – American Society of Mechanical Engineering
- APS – American Physics Society
- SNAJ – Society of Naval Architects of Japan
- RINA – Royal Institution of Naval Architects, UK
- ESAM – European Society of Applied Mathematics
- ANCONAV – Association of Romanian Shipbuilders
- SIAC – Romanian Society of Computer Aided Engineering

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s) **English, French, Japanese**

Self-assessment

**European level (\*)**

Understanding				Speaking				Writing		
Listening		Reading		Spoken interaction		Spoken production				
<b>English</b>	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
<b>French</b>	C1	Experienced user	C1	Experienced user	B2	Independent user	B2	Independent user	B1	Independent user
<b>Japanese</b>	C1	Experienced user	B1	Independent user	C2	Experienced user	C2	Experienced user	B1	Independent user

(\*) *Common European Framework of Reference for Languages***Social skills and competences**

Team working spirit: 21 years of activity in various teams (research and administrative), both in Romania and abroad, as a team leader (more than 30 de contracts) as well as a team (more than 20 contracts);

Communicatin capacity: very good

**Organisational skills and competences**

2004 -present:

Dean Faculty of Naval Architecture, "Dunărea de Jos" University of Galati

2001-present

Director of the research Center "Ship Hydrodynamics and Ship Structures"

1998-2004

Deputy Rector of the "Dunărea de Jos" University of Galati

**Technical skills and competences**Computer programming (Fortran, C++) sub MS-Windows / Unix  
Computer CAD/CAM applications: Pro-E, Tribon, Catia, AutoCAD  
Computer CFD applications: Shipflow, Fluent, Gambit, Tecplot**Supplementary information concerning professional skills**

2006-present Member of the Council of ARACIS (Romanian Agency fot Quality of Higher Education)

2006-present Member of CNATDCU – President of the Mechanical Engineering Commision – Romanian Ministry of Education Research and Innovation

2005-present CNCSIS (Romanian Council of Academic Research) – Expert evaluator

2005-present ANCS (Romanian Agency of Scientific Research) - Expert evaluator

2007-present Reviewer for ISI journals: Heat Transfer anf Fluid Flow and Powder Technology

2002-present Member of the Scientific Council of the National Center of Information Technology

**Driving licence**

B Category since 1981

**Annexes**

Selection list of published research: books, papers, grants and research contracts

Adrian Lungu  
September 2009

## LIST OF PUBLISHED PAPERS

## THESIS

- **Lungu, A.**, 1984, "*Non-Linear Optimization of the Speed for a Bulk Carrier*", B.Eng. Thesis, University of Galati, Jul.1984 (in Romanian). Advisor: Prof. Liviu Stoicescu.
- **Lungu, A.**, 1985, "*Vortex Lattice Method Applied to Accurate and Efficient Computation of the Flow around Propellers*", Postgraduate Thesis, University of Galati, Jun. 1985 (in Romanian). Advisor: Prof. Valeriu Ceanga.
- **Lungu, A.**, 1994, "*Numerical Analysis of the Free-Surface Flow around a 2D Submerged Hydrofoil*", Ph.D. Thesis, Hiroshima University, Sept. 1994. Advisor: Prof. Kazu-Hiro. Mori

## BOOKS

1. Domnişoru, L., **Lungu, A.**, Dragomir, D., Ioan A., "*Complements in Structural Analysis and Ship Hydrodynamics*", Galati University Press, ISBN 978-973-88711-1-3, Galaţi, 2008. (in Romanian)
2. Susan-Resiga R., Bernad S., Muntean S., (eds.), "*Vortex Flows and Applications*", co-author Cap.7, pp.313-386, "*Vortical and Free-Surface Flows in Ship Hydrodynamics*", Eurostampa Press, Timisoara, ISBN 978-973-678-659-2, 2007
3. Dragomir, D., **Lungu, A.**, Domnişoru, L., "*Design Complements in Naval Architecture*", Editura Didactică și Pedagogică, ISBN 978-973-30-1864-3, Bucureşti, 2007. (in Romanian)
4. **Lungu, A.**, (Editor) "*Lectures in Numerical Simulation in Engineering*", Academica Press, Galati, ISBN 973-8316-10-3, 2001
5. **Lungu, A.**, "*Numerical Hydrodynamics. Grid Generation*", Editura Tehnica Press, Bucharest, ISBN 973-31-1415-4, 2000. (in Romanian)
6. Ceanga, V., **Lungu, A.**, Paraschivescu, C., "*Deck Equipments*", Academica Press, Galati, ISBN 973-98858-8-8, 2000. (in Romanian)
7. **Lungu, A.**, "*Hydraulic Systems and Drives*", Editura Tehnica Press, Bucharest, ISBN 973-31-1330-1,1999. (in Romanian)
8. Ceangă, V., **Lungu, A.**, Paraschivescu, C., Bidoae, R., "*Ship Equipments*", Galati University Press, 1993. (in Romanian)

## PAPERS (SELECTION)

## REFEREED JOURNAL PUBLICATIONS:

1. **Lungu,A.**, Pacuraru, F., "*Numerical Study of the Hull-Propeller-Rudder Interaction*", Numerical Analysis and Applied Mathematics, AIP Proc., Melville New York, 2009, acceptată pentru publicare;
2. **Lungu, A.**, Ungureanu C., "*Numerical Study of a 3-D Juncture Flow*", Numerical Analysis and Applied Mathematics, AIP Proc., Melville New York, Vol.1048, pp.839-842, 2008;
3. **Lungu, A.**, "*Numerical Simulation of the Free-Surface Turbulent Flow around a VLCC Ship Hull*", Numerical Analysis and Applied Mathematics, AIP Proc., Melville New York, Vol.936, pp.647-650, 2007;
4. **Lungu, A.**, "*Unsteady LES of a Backward Facing Step Flow*", Numerical Analysis and Applied Mathematics, AIP Proc., Melville New York, Vol.936, pp.651-654, 2007;
5. **Lungu, A.**, Ungureanu, C., "*Numerical Study of the Incompressible Flow around a Strut Mounted on a Plate*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tome 53 (67), Special Issue, ISSN 1224-6077, pp.1-8, 2008;
6. **Lungu, A.**, Pacuraru, F., "*3D Free-Surface Flow Study around a Dhow Appended Hull*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tome 53 (67), Special Issue, ISSN 1224-6077, pp.9-16, 2008;
7. **Lungu, A.**, Tocu, A.M., Pacuraru, F., "*Numerical Investigation of the Wake Structure in a Free-Surface Viscous Flow around a High Block Coefficient Tanker*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tome 53 (67), Special Issue, ISSN 1224-6077, pp.31-36, 2008;
8. **Lungu, A.**, "*Free-Surface Turbulent Flow around a LPG Ship Hull*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 52 (66), Special Issue, ISSN 1224-6077, pp.61-68, 2007;
9. **Lungu, A.**, "*Uncertainties in the Free-Surface Potential Flow Code Simulation*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 52 (66), Special Issue, ISSN 1224-6077, pp.69-78, 2007;
10. **Lungu, A.**, Tocu A.M. "*Numerical Modeling of the Free-Surface Flow around a 3000Dwt Chemical Tanker*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 51 (65), Special Issue, ISSN 1224-6077, pp.113-122, 2006;
11. **Lungu, A.**, "*Numerical Simulation of the Free-Surface Flow around a Heavy-Lift Ship*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 51 (65), Special Issue, ISSN 1224-6077, pp.103-112, 2006;
12. **Lungu, A.**, "*CFD Achievements in Predicting the Vortical Flow Features*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 50 (64), Special Issue, ISSN 1224-6077, pp.33-42, 2005;
13. **Lungu, A.**, "*Numerical Approaches for Hull Form Improvement*", Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Transactions on Mechanics, Tom 50 (64), Special Issue, ISSN 1224-6077, pp.121-126, 2005;
14. **Lungu, A.**, "*Hull Forms Improvement for a 260 TEU Container Vessel*", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.3-8, 2004;

15. Lungu, A., "Wave Resistance Minimization for a Hooper Dredger", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.3-8, 2004;
16. Lungu, A., "Software Products for Hull Forms Optimization", Journal of Scientometry and Politics of Science, Special issue, ISSN 1582-1218, 2005;
17. Lungu, A., "Modelling of the Incipient Turbulent Wave Breaking", Oceanic Engineering International, Volume 5, No.1, Newfoundland, Canada, ISSN 1025-7187, pp.1-15, 2000;
18. Lungu, A., "Backward Facing Step Three-Dimensional Unsteady Viscous Flow Simulation", Computing- Journal of The Computer Aided Engineering, ISSN 1221-43-37, No.10, pp.1-6, 1999;
19. Lungu, A., "Computation of the Pressure Fluctuation around the Juncures", TCMM No. 35, Editura Tehnica Press Bucharest, ISBN 97331-1297-6, pp.151-162, 1999;
20. Lungu, A., "Study of Flow Phenomena with Free Boundaries", TCMM No. 35, Editura Tehnica Press Bucharest, ISBN 97331-1297-6, pp.163-169, 1999;
21. Lungu, A., Fetecau, C., "Numerical Study of the Flow in a Closed Cavity", Machine Building Journal, Bucharest, ISSN 0573-7419, year 51, No.3, pp.59-64, 1999 (in Romanian);
22. Lungu, A., Fetecau, C., "Numerical Simulation of the Flow in a Heat Exchanger", Machine Building Journal, Bucharest, ISSN 0573-7419, year 51, No.3, pp.65-69, 1999 (in Romanian);
23. Lungu, A., "B.E.M. Calculation for the Wave-Making Resistance of a Ship Hull", Computing- Journal of The Computer Aided Engineering, ISSN 1221-43-37, No.10, pp.7-12, 1999.
24. Lungu, A., "Numerical Simulation of the Bénard Convection", Revue Roumaine des Sciences Technique, serie Mécanique Appliquée, Academie Roumaine, Bucarest, 1999
25. Lungu, A., Raad, P.E., "Simulation of 3D Viscous Wave Systems", Paper No.FEDSM98-5213, The 1998 ASME Fluids Engineering, FEDSM'98, Washington D.C., SUA, ISBN 0-7918-1950-7, 1998;
26. Lungu, A., Raad, P.E., "Non-Linear Free-Surface Potential Flow Around the Series-60 Ship Hull", Paper No.FEDSM98-5212, The 1998 ASME Fluids Engineering, FEDSM'98, Washington D.C., SUA, ISBN 0-7918-1950-7, 1998;
27. Lungu, A., Raad, P.E., Mori, K., "Turbulent Early-Stage Breaking Wave Simulation", Paper No.FEDSM97-3404, The 1997 ASME Fluids Engineering, FEDSM'97 Vancouver, Canada, ISBN 0-7918-1237-5, 1997;
28. Lungu, A., "Study on the Turbulent Flow past a Cascade of Hydrodynamic Profiles", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, 1997.
29. Lungu, A., "Rankine Sources Method Calculation of the Wave Resistance", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, 1997.
30. Lungu, A., "Simulation of 3D Wave System Produced by a Pressure Distribution on the Free Surface", Revue Roumaine des Sciences Technique, serie Mécanique Appliquée, Academie Roumaine, Bucarest, 1997
31. Mori, K., Lungu, A., Doi, Y., "Turbulence on the Free-Surface and Wave Breaking", Studies on Turbulence, ISSN 0286-3154, No.26, Tokyo, Japan, pp.290-293, 1994;
32. Lungu, A., "Influences on the Solution of the Navier-Stokes Equations. Part 1: Computational Parameters", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.5-10, 1995.
33. Lungu, A., "Influences on the Solution of the Navier-Stokes Equations. Part 2: Physical Parameters", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.11-19, 1995.
34. Lungu, A., Mori, K., "Applications of Composite Grid Method for Free-Surface Flow Computations by Finite Difference Method", Journal of The Society of Naval Architects of Japan, vol.175, pp.1-10, 1994.
35. Lungu, A., "High Reynolds Numbers Simulation of Free-Surface Viscous Flow", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, pp.30-49, 1994.
36. Lungu, A., Mori, K., "Numerical Simulation of Infant Stage Breakers Produced by a Streamlined Body Running below the Free-Surface", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, pp.50-69, 1994.
37. Lungu, A., Mori, K., "A Study on Numerical Schemes for More Accurate and Efficient Computations of Free-Surface Flows by Finite Difference Method", Journal of The Society of Naval Architects of Japan, vol.173, pp. 9-17, 1993.
38. Lungu, A., "New Approaches for the Free-Surface and Open Boundary Conditions", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.3-28, 1992.
39. Lungu, A., "Splitting-Domain Method for Navier-Stokes Solvers", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.29-63, 1992.
40. Lungu, A., "Grid Generation Techniques for N-S Solvers Based on FDM", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.3-17, 1991.
41. Lungu, A., "Horizontal Displacement of Hydrodynamic Profiles beneath the Water Surface Simulated by MAC Method", Annals of the "Dunarea de Jos" University of Galati, Fascicle XI, ISSN 1221-4620, pp.19-49, 1991.

## REFEREED PROCEEDINGS IN SYMPOSIA AND CONFERENCES (SELECTION)

1. Lungu, A., Pacurar, F., "Wave Resistance Minimization for Ships Running under the Restricted Water Condition", Proceedings of the Numerical Towing Tank Symposium, NUTTS 08, Brest, France, pp.47-52, 2008;
2. Lungu, A., "Hydrodynamic Researches on the SSS Vessels Performances", 5th International Congress on Maritime Technological Innovations Research ICMTIR 2007, Barcelona, Spain pp.87-98, 2007;
3. Lungu, A., Tocu A.M., "Hull Forms Improvement for a LNG Ship", 5th International Congress on Maritime Technological Innovations Research ICMTIR 2007, Barcelona, Spain, pp.99-109, 2007;
4. Lungu, A., Tocu, A.M., "Numerical Simulation of the Free-Surface Flow around a Multipurpose Container Vessel", Proceedings of the Maritime Transport III, Barcelona Spain, North Holland, pp.805-817, 2006;
5. Lungu, A., "Numerical Simulation of the Unsteady 3D Free-Surface Viscous Flow around Blunt Piercing Bodies", Proceedings of the Conference on Modelling Fluid Flow (CMFF'06) , Budapest, Hungary, pp.782-789, 2006;

6. Lungu, A., Micu, D., "Hydrodynamic Optimization of the Hull Forms for a 6500DwT Chemical Tanker", Proceedings of the Conference "Excellency in Research – Premise for Developing the Romanian Research Environment", Vol.II, pp. L3-21-1 - L3-21-10, Brasov, 2006 (in Romanian)
7. Lungu, A., Pirvulescu, R., "Optimization of the Hull for a Fast Support Ship", Proceedings of the Conference "Excellency in Research – Premise for Developing the Romanian Research Environment", Vol.II, pp. L3-20-1 - L3-20-10, Brasov, 2006 (in Romanian)
8. Lungu, A., Micu, D., "Numerical Improvement of the Hull Forms for a 7500DwT Chemical Tanker", Proceedings of the Conference "Excellency in Research – Premise for Developing the Romanian Research Environment", Vol.II, pp. L3-22-1 - L3-22-10, Braşov, 2006 (in Romanian)
9. Lungu, A., "Hull Forms Optimisation", Proceedings of the 18<sup>th</sup> European Conference on Numerical Hydrodynamics, Vienna, Austria, pp.47-52, 2004;
10. Lungu, A., "Investigation of the 3-D Viscous Flow around an Appendage Mounted on a Plate", Proceedings of the Numerical Towing Tank Symposium, NUTTS 02, Nantes, France, pp.47-52, 2002;
11. Lungu, A., "CFD Modeling of Tip Vortex for Open Marine Propellers", Proceeding of the Romanian-Japanese Conference on Numerical Simulation in Engineering, NuSEng'01, Galati, pp. 215-228, 2001;
12. Lungu, A., Alexandru, G., "Numerical Experiments for Hull Form Improvement", Proceedings of the Numerical Towing Tank Symposium, NUTTS 01, Hamburg, Germany, pp.55-58, 2001;
13. Lungu, A., "Vortical Structures in a 3D Unsteady Viscous Flow", Proceedings of the Numerical Towing Tank Symposium, NUTTS 01, Hamburg, Germany, pp.59-62, 2001;
14. Alexandru, G., Micu, D., Lungu, A., Totolici, St., "A Case of Hull Performance Improvement Using CFD Methods for a Twin Screw Ship", Proceedings of the SIMOUEST 2000, Nantes, France, pp.59, 2000;
15. Lungu, A., "Compressible Flow Simulations around an Appendage Mounted on the Plate", Proceedings of The 5<sup>th</sup> International Conference on Boundary and Finite Element, ELFIN5, Oradea, Romania, Vol.3 pp.70-78, 2000;
16. Lungu, A., "Compressible Flow Simulations around a Dolphin Airfoil", Proceedings of The 5<sup>th</sup> International Conference on Boundary and Finite Element, ELFIN5, Oradea, Romania, Vol.3 pp.79-88, 2000;
17. Lungu, A., "CFD Approach for Hull Forms Optimization", Proceedings of the Sixth Technical Committee Meeting of Romanian Lloyd, Mangalia, Romania, pp. 33-39, 2000. (in Romanian)
18. Lungu, A., "Nonlinearities of the Free-Surface Flow", Proceedings of The ITTC Workshop on Deep Water Mooring and Related Topics in Offshore Engineering, Galati, Romania, pp.1-6, 1999;
19. Lungu, A., "Compressible Flow Simulation around a Strut Mounted on the Plate", 12<sup>th</sup> Conference on Numerical Aerodynamics, Paris, France, pp. 217-224, 1998;
20. Lungu, A., Raad, P.E., "RANS Modeling of the Early Stages of Wave Breaking", ONR Workshop "Free-Surface and Wall-Bounded Turbulent Flows", Pasadena, California, pp. 31-39, SUA, 1997;
21. Lungu, A., Raad, P.E., "RANS Turbulence Modeling of the Path to Wave Breaking", Proceedings of The Third International Symposium on Performance Enhancement for Marine Applications, Newport, Rhode Island, SUA, pp. 11-18, 1997;
22. Lungu, A., "Simulation of 3D Wave System Produced by a Pressure Distribution on the Free-Surface", Paper 123-97, Third Congress on Numerical Simulation, London, U.K, pp.73-88, 1997;
23. Lungu, A., "Numerical Calculation of 2-Dimensional Waves behind a Pressure Acting on the Free- Surface", Proceedings of The International Symposium on Ship Hydrodynamics- ISSH, St. Petersburg, Russia, pp.151-158, 1995;
24. Lungu, A., "Numerical Investigation of the Interaction between the Hydrofoils and Water Surface", Proceedings of The First International Yachting Technology Conference, Cesme Izmir, Turkey, pp.173-180, 1995;
25. Mori, K., Lungu, A., "Sub-Breaking Wave and its Numerical Simulation with Turbulent Characteristics", Proceedings of The Ninth International Symposium on Ocean Waves and Floating Bodies, Kuju Oita, Japan, pp.143-146, 1994.
26. Lungu, A., Mori, K., "Developments of the Finite-Difference Schemes for Free-Surface Flow Computation", Proceedings of The International Workshop on CFD, Tokyo, Japan, vol.1, pp.331-340, 1994.
27. Lungu, A., Mori, K., "Application of Composite Grids to Viscous Flows with Free-Surface", Proceedings of The Seventh Conference on CFD, Tokyo, Japan, pp.463-466 1993.
28. Lungu, A., Mori, K., "Direct Simulation Method for the Breaking Waves", Proceedings of The Second Symposium on Nonlinear and Free-Surface Flows, Hiroshima, Japan, pp. 40-43, 1993.
29. Lungu, A., Mori, K., "New Finite Difference Method for Efficient and Accurate Free-Surface Flow Computation", Proceedings of The Sixth Conference on CFD, Tokyo, Japan, pp.389-393, 1992.

## R&D PROJECTS AND GRANTS (SELECTION)

1. Lungu, A., et.al., "CFD Methods for Controlling the Flow Separations in the Free-Surface Flow around the Ship Extremities", Research Grant PNII-IDEI, CNCSIS Code 790, 2008. (in Romanian)
2. Lungu, A., et.al., "Hydrodynamic and Structural Researches for the Intermodal Ships", Grant CNCSIS 2007 theme 4, CNCSIS code 679, 2007. (in Romanian)
3. Lungu, A., et.al., "1350 DWT/1750 CBM Inland Tanker CFT – France", Report No. 511/2007.
4. Lungu, A., et.al., "Ship Hull Forms Optimization for the Self-Propellered Barge (SPB). CFD Numerical Simultions of the Ship Resitance for the Navigation in Unrestricted and Restricted Water Depth", Report No. 505/2007.
5. Lungu, A., et.al., "Software Packages for Optimizing the Hull Forms", Research Grant CNCSIS 33334/2004, "Dunarea de Jos" University of Galati. (in Romanian)
6. Lungu, A., et.al., "Ship Resistance Measurements in the Towing Tank for the SKD 753 Vessel", Report no. 344/2004, "Dunarea de Jos" University of Galati (in Romanian)
7. Chirica, I., Lungu, A., et.al., "Marstruct-Network of Excellence on Marine Structures", Grant EU, FP6 Program, Code TNE3-CT-2003-506141

8. Lungu, A., et.al., "Innovative Solution for the Bulk Carrier Vessels with Double Skin", Research Grant PNCD 6C14/2003, Program AMTRANS, "Dunarea de Jos" University of Galati. (in Romanian)
9. Lungu, A., et.al., "Software Packages for Optimizing the Hull Forms", Research Grant CNCSIS 33251/2003, "Dunarea de Jos" University of Galati. (in Romanian)
10. Lungu, A., et.al., "Comfort Ferry Cruise", Grant EU, FP5 Program, Subprogram CRAF-1999-71921
11. Lungu, A., "Numerical Modelling of the Flow around the Bow Thruster" – 6/Ac4579/022.202.001". Report no. 319/2002, "Dunarea de Jos" University of Galati. (in Romanian)
12. Lungu, A., et.al., "Software Packages for Optimizing the Hull Forms", Research Grant CNCSIS 33445/2002, "Dunarea de Jos" University of Galati. (in Romanian)
13. Lungu, A., "Product/Chemical Oil Tanker 47500 DwT - Ac4563. Model Tests and Lines Optimization. Hull Form Optimization with CFD", Report no. 303/2001, "Dunarea de Jos" University of Galati (in Romanian)
14. Lungu, A., "Numerical Analysis of Modern Bow Shapes", Report no. 293/2001, "Dunarea de Jos" University of Galati. (in Romanian)
15. Lungu, A., "Computational Grids. Algorithm for Adaptive Grid Generation", Report no. 305/2001, "Dunarea de Jos" University of Galati. (in Romanian)
16. Lungu, A., et.al., "Algorithms for Predicting the Ship Performances", Research Grant CNCSIS 36976/2001, "Dunarea de Jos" University of Galati. (in Romanian)
17. Lungu, A., "Hull Form Optimisation for the Vessel CV 1100-Plus"- AC 4510.1.6, Report no. 254/2001, "Dunarea de Jos" University of Galati (in Romanian)
18. Lungu, A., "Numerical Simulation of the Dolphin Profile Applied in Shipbuilding. BRAKE Project". Report no. 269/2000, "Dunarea de Jos" University of Galati. (in Romanian)
19. Lungu, A., "Tests and Calibrations of a Mathematical Model for Simulation". Report no. 273/2000, "Dunarea de Jos" University of Galati. (in Romanian)
20. Lungu, A., et.al., "Software for Numerical Simulation in Ship Hydrodynamics", Research Grant CNCSIS 36943/2000, "Dunarea de Jos" University of Galati. (in Romanian)
21. Lungu, A., "Hull Form Optimisation and Model Tests for LAURA-H a Twin Screw Sea/River Going Chemical/Oil Tanker". Report no. 254/1999, "Dunarea de Jos" University of Galati (in Romanian)
22. Lungu, A., "Software Packages for Numerical Simulation in Ship Hydrodynamics", Research Grant CNCSU 272/1999, "Dunarea de Jos" University of Galati. (in Romanian)
23. Lungu, A., "Preliminary Numerical Analysis of the Dolphin Profiles Used for Propellers and Rudders", Report no. 251/1999, "Dunarea de Jos" University of Galati. (in Romanian)
24. Lungu, A., "Numerical and Experimental Researches for Improving the Hull Forms for High Froude Numbers Ships", Report no. 252/1999, "Dunarea de Jos" University of Galati. (in Romanian)
25. Lungu, A., "Numerical Prediction of the Plates Manufacturing Defaults", Research Grant CNCSIS 34234/1999, "Dunarea de Jos" University of Galati. (in Romanian)
26. Lungu, A., "Software Packages for Hydrodynamics", Grant-in-Aid. ANSTI 5214GR/1999, "Dunarea de Jos" University of Galati. (in Romanian)
27. Segal, C., Lungu, A., et.al., "Logiciels pour des écrans de synthèse sur la configuration des ordinateurs. Operations d'améliorer les opérations de configuration répétitives". Report no. CST/ACHAC/812593/CM, Galati: 228/1998, "Dunarea de Jos" University of Galati. (in French)
28. Lungu, A., "Hydrodynamic Characteristics of a NACA0012 Piercing Profile", Report no. 210/1998, "Dunarea de Jos" University of Galati. (in Romanian)
29. Lungu, A., "Numerical Modeling of the 3D Free-Surface Viscous Flow", Report no. 211/1998, "Dunarea de Jos" University of Galati. (in Romanian)
30. Lungu, A., "Numerical Computation of the Velocity Distribution in the Jet Propulsion System", Report no. 213/1998, "Dunarea de Jos" University of Galati. (in Romanian)
31. Lungu, A., "Methodology for Computing the Flow in the Diagonal Propeller", Report no. 168/1997, "Dunarea de Jos" University of Galati. (in Romanian)
32. Lungu, A., Raad, P.E., "Study of Turbulent Flow Methodology- Report No. IR&D 1920" Southern Methodist University, Dallas, Texas, USA, 1996
33. Lungu, A., "Numerical Simulation of the Free-Surface Flow. Investigation of the Breaking Wave Phenomenon", Report no. 1068/1996, "Dunarea de Jos" University of Galati.