

ROMÂNIA

MINISTERUL APĂRĂRII NAȚIONALE
ACADEMIA NAVALĂ "MIRCEA CEL BĂTRÂN"

Anexa la Cererea nr. din

LISTA DE LUCRĂRI A DR. ING. AVRAM ELENA RITA
ANUL UNIVERSITAR 2019-2020

1. Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de prezentul articol:

- Lucrări publicate în reviste ISI

1. Manea MG, Bormambet M, Avram E R “The influence of the labor market on the academic curriculum content in the field of engineering sciences” INTED2020 Proceedings of 14th International Technology, Education and Development Conference, ISBN:978-84-09-17939-8, ISSN: 2340-1079, 2020,pages 7970-7976, DOI:10.21125/inted.2020.2169, <https://library.iated.org/view/MANEA2020INF>
2. Manea MG, Bormambet M, Avram E R, About the correlation between the engineering academic curriculum with national and international standards, INTED2020 Proceedings of 14th International Technology, Education and Development Conference, ISBN:978-84-09-17939-8, ISSN: 2340-1079, 2020, pages 7977-7985, <https://library.iated.org/view/MANEA2020ABO>
3. Patrascu M, Baracu T, Badescu V, Birsan MV, Teodosiu C, Degeratu M, Avram ER, Udrea M, Calancea L, Mesteru C, Modeling air leakage in buildings caused by the cyclic variation of the atmospheric pressure, Building Services Engineering Research & Technology, 2018, DOI: 10.1177/0143624417749536, EID:2-s2.0-85041914846, FI: 1,1 <https://doi.org/10.1177/0143624417749536>
4. Badescu V, Baracu T, Avram R, Grigore R, On the design and optimization of heat exchangers by using the method of entropy generation minimization and constructal theory, Proceedings of the Romanian Academy Series, ISSN 1454-9069, a X-a ediție a conferinței “Constructal Law & Second Law”, 2017, The Publishing House of the Romanian Academy, ISBN: 978-973-27-2748-5, pag 539-547, WOS: 000439880200030, EID:2-s2.0-85049972986 FI: 0,45, http://www.acad.ro/sectii2002/proceedings/doc2018-1s/proc_pag2018_n01s.htm
5. Pintilie A, Cotrumbă M, Avram R, Raftu G, National Policies and Strategies Concerning the Entering on the Labor Market of the Graduates of the Engineering Specialties from the Public Higher Education, INTED 2016, 10th International Technology, Education and Development Conference, INTED2016 Proceedings, Valencia (Spain), ISBN: 978-84-608-5617-7 / ISSN: 2340-1079 pg. 3876 ÷ 3886. WOSUID:WOS:000402738403130 https://library.iated.org/authors/Elena+Rita_Avram, https://iated.org/concrete3/paper_detail.php?paper_id=47627, <https://library.iated.org/view/PINTILIE2016NAT>
6. Baracu B, Costinas S, Ghiaus C, Badea A, Avram R, Vladulescu F, Jugravescu D, New analytical methodologies for radiative heat transfer in enclosures based on matrix formalism and network analogy, Applied Thermal Engineering 107, 2016, pg. 1269–1286 (ISSN 1359-

4311), DOI:10.1016/j.applthermaleng.2016.06.157, WOSUID:WOS:000382794900127, FI:3,771,

<http://dx.doi.org/10.1016/j.applthermaleng.2016.06.157>,

<https://www.sciencedirect.com/science/article/pii/S1359431116310717?via%3Dihub>

7. Avram ER, Mamut E, Oancea L, Băcu C, The method of dimensional analysis using similitude theory applied for modeling of fluid flow in microchannels, Proceedings of the 7th International Symposium on Advanced Topics in Electrical Engineering, ATEE, May 12-14, 2011, Bucharest, Romania, pg.565-571 ISSN 2068-7966, IEEE Catalog Number CFP1114P-CDR & Proc. ISSN 2068-7966, IET-INSPEC, ISBN: CFP1114P-PRT. 978-1-4577, -0507-6, EID:2-s2.0-80155187915, WOSUID:WOS:000310701200059, **FI= 1.270**, Influence score = 1.17738, Indexata IEEE Xplore

<https://ieeexplore.ieee.org/document/5952195> <http://www.ieeesystemsjournal.org/>

8. Pintilie A., Radoiu B., Bormambet M., Avram R., Supplemental Loads in Main Gas Pipelines due to Multiple Supports, The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology, ISSN 1221-4639, vol. 24, 2013, pp. 5-10 (revistă cotate CNCSIS B+), EID: 2-s2.0-84896518212

<https://search.proquest.com/docview/1506154403/abstract/B1FE5D52987E495FPQ/1?accountid=160984>

<https://www.scopus.com/sourceid/19700188152?origin=resultslist>

<http://www.cmrs.ugal.ro/AWET.htm>

- Lucrări în reviste indexate în baze de date

1. Avram ER; Arsenie DI, Contribution to thermo fluid modelling of micro heat exchangers using the dimensional analysis., Ovidius University Annals of Chemistry, Vol 22, Nr. 1, 011 Ovidius University Press, ISSN: 1583-2430, http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2011-1/2_avram.pdf

- Lucrări în volume ale manifestărilor științifice internaționale

1. Apetroaei MR, Avram ER, Atodiresei DV, Apetroaei GM, Emerging pollutants-a potential threat to the marine environment, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X
2. Coșofreț D, Avram ER, Reducing GHG Emissions at Military Vessels, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X
3. Avram ER, Apetroaei MR, Avram EI, Apetroaei GM, An experimental investigations of the single phase fluid flow through mini pipes with circular cross section, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X
4. Avram ER, Coșofreț D, Apetroaei MR, Corduneanu D, Overview of the innovative heat exchangers technologies, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X
5. Coșofreț D, Avram ER, Corduneanu D, Economic policies to reduce CO₂ emissions in maritime transport, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X
6. Avram ER, Apetroaei MR, Atodiresei DV, Avram EI, Overview on the indoor air pollution sources of the ship cabins and the hyperbaric chambers, SEA - CONF 2020 6th International Conference, ISSN 2457-144X ISSN –L 2457-144X

2. Teza sau tezele de doctorat

Titlul: „Modelarea unui microschimbatör de cãldurã în curent încrucișat,, conducãtor de doctorat: Prof. univ.dr. Dumitru Ion Arsenie, 2004-2011, Universitatea “Ovidius” Constanta, susținutã public pe 11.02.2011.

3. Brevete de invenție și alte titluri de proprietate industrialã;

4. Cãrți și capitole în cãrți

- Avram ER, Mecanica, Notițe de curs, Editura PIM (acreditatã CNCSIS 66/2010), ISBN 978-606-13-5594-5, Iași, 2020
- Avram ER, Avram EI, Abordãri inovative privind modelarea termofluidicã a schimbãtoarelor de cãldurã cu mini și microcanale, Editura PIM (acreditatã CNCSIS 66/2010), ISBN 978-606-13-5613-3, Iași, 2020

5. Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

6. Publicații in extenso, apãrute în lucrãri ale principalelor conferințe internaționale de specialitate

- Cotrumba M, Avram R, *Some Considerations Regarding the Application of Theory in Problem Solving Spatial Projection of Simple Objects* - The 6-th International Conference on Engineering Graphics and Design, June 11-13, 2015, Brasov, Romania, Journal of Industrial Design and Engineering Graphics (ISSN 1843 - 3766)
- Avram ER, Cotrumba M, Topalu AM, Radoiu B, Innovative Vocational Training Concept For Promoting Renewable Energy Sources In Rural Areas In Europe, 14-Th European Conference On E-Learning/ E-Tivities / E-Health /E-Business/ E-Commerce/E-Work/ E-Tourism / E-Government/ E-Democracy/ E-Mediary, E-Inclusion / On-Line Services / E-Marine / E-Banking / Adaptnetics, And Their Influences On The Economic/ Social Environment And Contributions To Era - E-Comm-Line 2013”, 24-25 Septembrie 2013, Bucuresti Si Publicate Cu Isbn-10:973-1704-23-X Si Isbn-13:978-973-1704-23-4.
- Topalu AM, Avram ER, Ianculescu G, Pintilie A, The Economic Impact Of Renewable Energy In Rural Areas In Europe, 14-Th European Conference On E-Learning/ E-Tivities / E-Health /E-Business/ E-Commerce/E-Work/ E-Tourism / E-Government/ E-Democracy/ E-Mediary, E-Inclusion / On-Line Services / E-Marine / E-Banking / Adaptnetics, And Their Influences On The Economic/ Social Environment And Contributions To Era - E-Comm-Line 2013”, 24-25 Septembrie 2013, Bucuresti Si Publicate Cu Isbn-10:973-1704-23-X Si Isbn-13:978-973-1704-23-4.
- Cotrumba M, Avram ER, Zawichowski M, Pintilie A, Perspectives For Offshore Wind As A Renewable Source Of Energy, 14-Th European Conference On E-Learning/ E-Tivities / E-Health /E-Business/ E-Commerce/E-Work/ E-Tourism / E-Government/ E-Democracy/ E-Mediary, E-Inclusion / On-Line Services / E-Marine / E-Banking / Adaptnetics, And Their Influences On The Economic/ Social Environment And Contributions To Era - E-Comm-Line 2013”, 24-25 Septembrie 2013, Bucuresti Si Publicate Cu Isbn-10:973-1704-23-X Si Isbn-13:978-973-1704-23-4.
- Pintilie A., Avram R, *Considerations on Object-Oriented Programming Environment AUTOCAD Drawings* - The 6-th International Conference on Engineering Graphics and Design, June 11-13, 2015, Brasov, Romania, Journal of Industrial Design and Engineering Graphics (ISSN 1843 - 3766)
- Mamut E., Bãcu C., Avram R., “*Heat transfer management in PEMFC*”, Proc. of the 16th ICIT Conference Progress in Cryogenics and Isotopes Separation, Calimãnesti –Caciulata ISBN 978-973-750-192-9, 2010 (revistã cotate CNCSIS C)
- Bãcu C., Avram R., Mamut E., “*Methods of investigating degradation phenomena in membrane electrode assemblies (MEA)*”, Proc. of the 16th ICIT Conference Progress in

Cryogenics and Isotopes Separation, Călimănești – Căciulata ISBN 978-973-750-192-9, 2010 (revistă cotate CNCSIS C)

- Avram ER., Mamut E, New Concepts of the Fortification of the Hinterland of Port of Constanta, Proc. of Int. Workshop on New liner concepts and New Concepts for Value Added Services in the Intermodal Market, November 2007, Novi Sad, Serbia.
- Mamut E, Avram R, Advanced Composite Materials for Transport Application: Application to Deck House for Inland Waterway and Sea Cargo Ships, Proc. of DE-Light TRANSPORT Meeting, November 2006, Hamburg, Germany
- Avram E. R., Mamut E., New Concepts of the Fortification of the Hinterland of Port of Constanta, Proc. of Int. Workshop on New liner concepts and New Concepts for Value Added Services in the Intermodal Market, November 2007, Novi Sad, Serbia.
- E. Mamut, R. Avram, Advanced Composite Materials for Transport Application: Application to Deck House for Inland Waterway and Sea Cargo Ships, Proc. of DE-Light TRANSPORT Meeting, November 2006, Hamburg, Germany
- Avram E. R., Mamut E., New Concepts of the Fortification of the Hinterland of Port of Constanta, Proc. of Int. Workshop on New liner concepts and New Concepts for Value Added Services in the Intermodal Market, November 2007, Novi Sad, Serbia.
- E. Mamut, R. Avram, Advanced Composite Materials for Transport Application: Application to Deck House for Inland Waterway and Sea Cargo Ships, Proc. of DE-Light TRANSPORT Meeting, November 2006, Hamburg, Germany
- Mamut E., Avram R., Caescu L., Modelling of the Degradation Processes of Membrane Electrode Assembly Structures for Solid Oxide Fuel Cells, Proc. of. Yearly Symposium ARoEND 2006, June 2006, Constanta, Romania.
- Avram R., Mamut E., Caescu, L., Fuel Cells Research and Testing Laboratory of “Ovidius” University of Constanta – Proc. of. Symposium on Opportunities to participate in the European Research Projects in the field of hydrogen and Fuel Cells, April 2006, Constanta, Romania.
- Avram R., Mamut E., L. Caescu, Internet Based Advanced Learning Tools: The BSUN Advanced Thermodynamics Resources Portal, E-COMM-LINE 2005, September 2005, Bucharest, Romania.
- Avram E.R. , Mamut E., Gaseous Flow Models For Lung Metabolism, Sustainability for Humanity & Environment in the Extended Connection Field Science – Economy – Policy: Scientific reunion of the special program of the Alexander von Humboldt Foundation concerning the reconstruction of the South Eastern Europe: February 2005/ Politehnica Publishing House, 2005, 2 vol, ISBN 973.625-204-3.
- Baracu T, Avram ER, Sciubba E, Mamut E, Marinescu F, Thermo-economic Analysis of the Environmental Impact of Condensing Boilers MEET/MARIND 2002 Int. Conf., 2002, Varna, Bulgaria.
- Mamut E, Sciubba E, Avram R, Assisting SMEs in Improving the Efficiency and Reducing the Environmental Impact of Manufacturing Technologies - Project EFFECT, Int. Workshop TTCAM 99, Constanta, "Cost Efficient Methods and Techniques for Technology Transfer Services", Technical Publishing House, 1999, Bucharest.

7. Contracte de cercetare științifică

în calitate de director de Proiect:

- Proiect în cadrul Planului sectorial de cercetare-dezvoltare al MAPN pe anul 2020, Poziție plan: 138, cu titlul Analiza teoretică și experimentală a calității aerului și a surselor de poluare din incinte (birouri, săli de clasă, cabine nave, incinte hiperbare).
- GAUDEAMUS IGITUR – ȘANSE EGALE LA EDUCAȚIE, ”Proiect CNFIS-FDI-2018-0486, director de proiect, Elena-Rita Avram, Valoare totala: 328330 lei.
- “Innovative vocational training concept for promoting renewable energy sources in rural areas in Europe”, 2012-1-RO1-LEO05-21099, Proiect Leonardo da Vinci Transfer of Innovation projects, director de proiect: Elena-Rita Avram, . valoarea totala: 334860 Euro, valoarea alocata: UOC 73394 Euro, <http://www.train-res.univ-ovidius.ro/en/>
- Contract de grant ANSTI: Cercetări cu privire la analiza si optimizarea termodinamica a impactului ecologic al sistemelor energetice Coordonator - Universitatea “Ovidius” Constanta, 1999, 2000

în calitate de membru în echipa de implementare a proiectului:

- 2020 - Proiect în planul intern al FNMN: Modernizarea instalației de semnalizare mașini de la bordul N.S. MIRCEA”, director proiect dr. ing. Doru Coșofreț,
- 2015 - "Competente cheie pentru implicare civica in sprijinul dezvoltarii durabile - Energy Smart", POSDRU 2007-2013; AP1, DMI 1.1, Contract POSDRU/190/1.1/S/156977, director proiect din partea UOC, Lucia Melnic, Valoare totala proiect: 3735846.19 lei, Valoare proiect UOC: 99323lei <http://energysmart.power.ro:1181/index.php>
- 2014 - „Proiectează-ți cariera!”, Proiect POSDRU/161/2.1/G/136624, director proiect din partea UOC, Lucia Melnic, Valoare totala proiect: 2,107,983.00, Valoare proiect UOC: 360098 lei, <http://www.proiect.ugal.ro>
- 2011 - 2012 - GEOSIDMAR - Elaborarea documentatiei stiintifice si tehnice în vederea creării Centrului International de Studii Avansate privind Sistemul Dunăre – Delta Dunării – Marea Neagră, Contract nr. 09410307 - Autoritatea Nationala pentru Cercetare Stiintifica – ANCS, director de proiect: Eden Mamut, durata: 10.12.2011, 15.02-10.05.2012, Valoare proiect UOC: 56250 lei
- 2011 - 2013 - “BSUN Joint Master Degree Study Program on the Management of Renewable Energy Sources – ARGOS”, în cadrul Programului Operațional Comun “Bazinul Mării Negre 2007-2013”, Contract 1.3.1.66334.127 MIS-ETC 277 no. 44553/8.06.2011, director de proiect: Eden Mamut, durata: 2011-2013,. Valoare proiect UOC: 86665 euro
- 2010-2012- Competences for Sustainable Energy, Proiect LLP-LDV-TOI-10-IT-512, director de proiect: Eden Mamut, durata: 2010-2012, Valoare proiect UOC: 60215 Euro
- 2010 - 2012- Eco innovative refitting technologies and processes for shipbuilding industry promoted by European Repair Shipyards (ECOREFITTEC), ID 266268 FP7-SST-2010-RTD-1, Programul Cadru 7 Sustainable Surface Transport (SST)-2010-RTD-1, Valoare totala: 2572597,00 Euro, Valoare proiect UOC: 194336,00 Euro
- 2008 - 2010 - FLUOTURNARE - Tehnologie inovativa si dispozitive de prelucrare a materialelor metalice prin deformare plastica rotativa, Cod proiect: 230 / 06.10.2008 – ANCS, director de proiect: Eden Mamut, durata: 06.10.2008 - 31.08.2010, Valoare proiect UOC: 18750,00 lei
- 2008 - 2010 - SIN-R -Sistem de Inspectie Neintruziva cu Radiatie Gama, Cod proiect: Nr. 258 din 14.10.2008 – ANCS, durata: 14.10.2008-14.10.2010,
- 2007 - 2010 - MODIS - Monitorizarea, diagnoza si repararea structurilor complexe din materiale avansate -CEEX 2576/2007 - coordonator INCDFI Iasi, director de

proiect: Eden Mamut, durata: 18.09.2007-30.09.2010; Valoare proiect UOC: 30000 lei

- 2006 - 2008 - Proiect INTERIM - Integration of EU Neighbourhood Countries in the Transport Chains of the EU Intermodal Railway and Inland (and coastal) Waterways Modes. - Phare - Intereg IIIB CADSES RO2004/016-772.05.02.02 - coordonator University of Applied Sciences Wildau, Germania, director de proiect: Eden Mamut, durata: 04.2006-04.2008, valoare UOC: 93000 Euro
- 2006 - 2008 -Proiect EUROMAR BRIDGES - Building Bridges between EU Member and Candidate States in Maritime Research on Transport within the Frames of European Research Area -FP 6 - SSA 031304 -- coordonator: Centrum Techniki Okretowej S.A. – Ship Design Centre S.A., Polonia, director de proiect: Eden Mamut, durata: 01.12.2006-31.05.2008, Valoare totala: 258146,00 Euro, Valoare proiect UOC: 22500 Euro
- 2006 - 2008 - FCTEDI - Fuel Cell Testing and Dissemination. (FP6) 038986FP 6 – SSA, , coordonator: Agenzia Nazionale per le Nuove Tecnologie, L'energia e lo Sviluppo Economico Sostenibile (Italy), director de proiect: Eden Mamut, Valoare totala: 762564 Euro, Valoare proiect UOC: 15000 Euro
- 2006 - 2008 - Proiect EUROMIND - Creating an innovative European Open Maritime Industry through facilitating the integration of standards into new business practices and services -FP 6 - CA 031153 - coordonator: Delft University of Technology, Olanda, director de proiect: Eden Mamut, durata: 01.09.2006-01.09.2008, Valoare totala: 947078,00 Euro, Valoare proiect UOC: 38957,04 Euro
- 2006 - 2009 - Proiect DeLight TRANSPORT - Developing lightweight modules for transport systems featuring efficient production and lifecycle benefits at structural and functional integrity using risk based design. - FP 6 – STREP – 031483 - coordonator: Center for Maritime Technology Maritime, Hamburg, director de proiect: Eden Mamut, durata: 01.11.2006 – 01.11.2009; Valoare totala: 3707797,00 Euro, Valoare proiect UOC: 98036 Euro
- 2006 - 2008 - HYRES DOBROGEA - Proiect de cercetare asupra tehnologiilor energetice pe baza de hidrogen, utilizabile in vederea valorificării surselor energetice regenerabile din zona Dobrogei - CEEEX 750/2006 – coordonator Centrul pentru Științe Inginerești Avansate, Universitatea “Ovidius” Constanta, director de proiect: Eden Mamut, durata: 9.10.2006-28.09.2008, Valoare proiect UOC: 750000 lei;
- 2006 - 2008 - EURGROVE - Promovarea integrării colectivelor de cercetare românești din domeniul tehnologiilor pe baza de hidrogen și celulelor de combustie în programe de cercetare dezvoltate sub egida Platformei Tehnologice Europene pentru Hidrogen - CEEEX 172/2006 - coordonator Centrul pentru Științe Inginerești Avansate, Universitatea “Ovidius” Constanta, director de proiect: Eden Mamut, durata: 01.08.2006-01.07.2008, Valoare proiect UOC: 79985 lei
- 2006 - 2008 - ROLIGHT - Sistem de Management prin Procedee Neinvazive a Caracteristicilor Fizico-Mecanice, a Fiabilității și Degradării Materialelor Compozite, Tehnologii «Embedded» pentru Monitorizare in Timpul Exploatarii; Aplicații la Compozite Lingocelulozice, Structuri Ușoare din Materiale Compozite, Compozite Nanostructurate - CEEEX 49/2006 - coordonator INCDFT Iasi - durata: 01.07.2006 - 15.12.2008;
- 2006 - 2008 - PROCAR - Promovarea participării la programe europene de cercetare din domeniul utilizării carburanților alternativi in transportul rutier - CEEEX 166/2006 - Universitatea Pitesti - durata: 01.08.2006-31.07.2008;
- 2006 - 2008 - ROWATERBORNE - Promovarea cercetării românești din domeniul naval în contextul integrării in platforma tehnologica europeana WATERBORNE -

CEEX 244/2006 - coordonator Universitatea "Dunărea de Jos" Galati - durata: 01.08.2006 – 31.07.2008;

- 2006 - Proiect EFFORTS – Effective Operation in Ports. - FP 6 – 031486 - coordonator D'Appolonia, Italia - durata: 01.05.2006 - 31.12.2006;
- 2005 -2007 - Promo H2PC - Promovarea participării la programe europene de cercetare în domeniul Hidrogenului și celulelor de combustie - CEEX 12/2005 - coordonator SC OVM-ICCPET SA - durata: 10.2005-08.2007;
- 2004 - 2006 - METEORA - Model Experimental de Pila de Combustie cu Optimizarea Distribuției de Gaze și a Bilanțului de Apă - PNCDI _ MEER 495-04/2004-- coordonator Centrul pentru Științe Inginerești Avansate - Universitatea "Ovidius" Constanta - durata: 13.10.2004 – 13.08.2006;
- 2004 - 2006 - NANOFLUID - Cercetări asupra Validității Modelelor Macroscopice în Cazul Proceselor de Curgere a Nanofluidelor prin Microschimbătoare de Căldură - CNCSIS 33381/29.06.2004 –coordonator: Centrul pentru Științe Inginerești Avansate - Universitatea "Ovidius" Constanta - durata: 2004-2006;
- 2004 - 2006 - Proiect ENCOMAR TRANSPORT - Enhanced co-operation between EU member states and Associated Candidate States in Maritime Transport - FP 6 - 516425 (TSA4-CT-2005-516425) FP 6 - SSA-- coordonator Centrul pentru Tehnologii în domeniul Maritim, Germania - durata: 04.2004 - 12.2006.

8. Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice.

Data

Semnătura

27.05.2020

