

Universitatea Transilvania din Braşov
Facultatea de Inginerie Mecanică
Departamentul de Inginerie Mecanică

Poz. postului 15
Disciplinele postului :
Mecanica fluidelor şi maşini hidraulice,
Dinamica fluidelor,
Termotehnică şi maşini termice

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII
Profesor, poziţia 15

publicat în Monitorul Oficial al României nr. 324 din data de 10.VI.2014

Candidat: Angel HUMINIC
Funcţia actuală: conferenţiar universitar

Data naşterii: 04.08.1971
Instituţia: Universitatea Transilvania din Braşov

1. Studii universitare (licenţă şi masterat)

Nr. crt.	Instituţia de învăţământ superior şi facultatea	Domeniul	Perioada	Titlul acordat
1.	Universitatea Transilvania din Braşov, facultatea de Inginerie Tehnologică	Construcţii Aeronave	1991-1996	Inginer diplomat

2. Studii de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
1.	Universitatea Transilvania din Braşov, Facultatea de Inginerie Mecanică	Inginerie Mecanică	2002-2005	Doctor inginer

3. Realizările profesional-ştiinţifice

Calitatea activităţilor didactice/ profesionale	Din Fişa de evaluare şi din Propunerea de dezvoltare a carierei universitare
Lucrări publicate în reviste de specialitate recunoscute naţional internaţional	<ol style="list-style-type: none">1. Huminic G., Huminic A., "Numerical study on heat transfer characteristics of thermosyphon heat pipes using nanofluids", Energy Conversion and Management, Volume 76, 2013, pp. 393-399, ISSN: 01968904, doi: 10.1016/j.enconman.2013.07.026, Factor de impact 2.7752. Huminic G., Huminic A., "Numerical analysis of laminar flow heat transfer of nanofluids in a flattened tube", International Communications in Heat and Mass Transfer, Vol. 44, pp. 52-57, 2013, ISSN: 07351933, 2013, doi: 10.1016/j.icheatmasstransfer.2013.03.003, Factor de impact 2.208.

Articol inclus în *Top 25 Hottest Articles*, Science Direct, Engineering, International Communications in Heat and Mass Transfer, April to June 2013

3. **Huminic A.**, Huminic G., Soica A., "Study of aerodynamics for a simplified car model with the underbody shaped as a Venturi nozzle", International Journal of Vehicle Design, Volume 58, Issue 1, pp. 15-32, ISSN: 0143-3369, 2012, DOI: 10.1504/IJVD.2012.045927, Factor de impact 0.509
4. Huminic G., **Huminic A.**, "Application of nanofluids in heat exchangers: A review", Renewable and Sustainable Energy Reviews, Volume 16, Issue 8, pp. 5625-5638, 2012, ISSN: 136403212, doi: 10.1016/j.rser.2012.05.023, Factor de impact 5.627.
5. Huminic G., **Huminic A.**, "Heat transfer characteristics in double tube helical heat exchangers using nanofluids", International Journal of Heat and Mass Transfer, Volume 54, Issue 19-20, pp. 4280-4287, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2011.05.017, Factor de impact 2.307.

Articol inclus în *Top 25 Hottest Articles*, Science Direct, Engineering-Energy, International Journal of Heat and Mass Transfer July to September 2011.

6. Huminic G., **Huminic A.**, "Heat transfer characteristics of a two-phase closed thermosyphons using nanofluids", Experimental Thermal and Fluid Science, Volume 35, Issue 3, 2011, pp. 550-557, doi 0.1016/j.expthermflusci.2010.12.009 Fctor de impact 1.595.

Articol inclus în *Top 25 Hottest Articles*, Science Direct, Engineering-Energy, Experimental Thermal and Fluid Science, January to March 2011.

7. Huminic G., **Huminic A.**, I. Morjan I., F. Dumitrache F., "Experimental study of the thermal performance of thermosyphon heat pipe using iron oxide nanoparticles", International Journal of Heat and Mass Transfer, Volume 54, Issue 1-3, 2011, pp. 656-661, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2010.09.005, Factor de impact 2.307.

Articol inclus în *Top 25 Hottest Articles*, Science Direct, Engineering-Energy, International Journal of Heat and Mass Transfer, October to December 2010.

8. **Huminic A.**, Huminic G., "Numerical flow simulation for a generic vehicle body on wheels with variable underbody diffuser", Vehicle Aerodynamics, SAE SP 2333, pp. 139-148, 2012, ISSN 0148-7191, doi: 10.4271/2012-01-0172.
9. **Huminic A.**, Huminic G., "Computational Study of Flow in the Underbody Diffuser for a Simplified Car Model", Vehicle Aerodynamics, SAE SP 2269, 2010, ISSN 0148-7191, pg. 12-23, doi: 10.4271/2010-01-0119

	<p>10. Huminic A., Huminic G., "CFD Study Concerning the Influence of the Underbody Components on Total Drag for a SUV", Vehicle Aerodynamics, SAE SP 2226, 2009, ISSN 0148-7191, pg. 315-321, DOI: 10.4271/2009-01-1157</p> <p>11. Huminic G., Huminic A., "New synergy analysis of alternative refrigerants used in refrigerating transport", International Journal of Low Carbon Technologies, Vol. 3, Issue 1, pp. 12-23, 2008, ISSN 17481317, DOI: 10.1093/ijlct/3.1.12</p> <p>12. Huminic A., Huminic G., "On the Aerodynamics of the Racing Cars", Vehicle Aerodynamics, SAE SP 2226, 2008, ISSN 0148-7191, pg. 25-29, DOI: 10.4271/2008-01-0099</p> <p>13. Huminic A., Chiru A., "On CFD Investigations of Vehicle Aerodynamics with Rotating Wheels Simulation", Vehicle Aerodynamics, SAE SP 1991, 2006, ISSN 0148-7191, DOI: 10.4271/2006-01-0804</p>
<p>Lucrări prezentate la conferințe naționale/internaționale în profilul postului</p>	<p>14. Huminic G., Huminic A., "The Cooling Performances Evaluation of Nanofluids in a Compact Heat Exchanger", SAE World Congress 2012, Detroit USA, SAE Technical Paper 2012-01-1045, doi:10.4271/2012-01-1045,</p> <p>15. Huminic A., Huminic G., "Study of the Automotive Wings with Coanda Effect", FISITA World Automotive Congress 2010, paper FISITA2010/F2010B033,</p> <p>16. Huminic G., Huminic A., "Study on thermal performance of the heat pipes with water – nanoparticles mixture", SAE World Congress 2010, Detroit USA, SAE Technical Paper 2010-01-0183, doi: 10.4271/2010-01-0183.</p> <p>17. Huminic A., Chiru A., Huminic G., "Study of the Underhood Airflow on Aerodynamics of the Road Vehicles", FISITA World Automotive Congress 2006, paper Yokohama2006/F2006M078,</p> <p>18. Huminic A., Chiru A., "Ground Effect Simulation in Design of Vehicles", FISITA World Automotive Congress 2004, paper barcelona2004/F2004F130-paper</p> <p>19. Huminic A., Huminic G., "Flow Simulation Around a Generic Vehicle Body on Wheels", SIAR International Congress on Automotive, CAR 2011, ISSN 1453-1100.</p> <p>20. Huminic A., Huminic G., "Automotive Wing with Coanda Effect", International Congress on Automotive and Transport Engineering, CONAT 2010, ISSN 2069-0401, Volume 2, pp. 171-178.</p>

Volum(e) de specialitate publicat(e) în edituri recunoscute național	<ol style="list-style-type: none"> 1. Huminic A., "Mecanica Fluidelor", Universitatea Transilvania din Brașov, ISBN 978-606-19-0380-1, 2014 2. Huminic A., "Mecanica Fluidelor și Aerodinamică Experimentală - Noțiuni teoretice și Aplicații practice", Editura Universității Transilvania din Brașov, ISBN 978-973-635-856-2, 2006 3. Șoica A., Chiru A., Ispas N., Huminic A., "Caroserii și Sisteme de Siguranță Pasivă", Editura Universității Transilvania din Brașov, ISBN 973-635-461-X, 2005
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Director departament IM

Prof. Dr ing. mat. Sorin VLASE



Candidat,

Dr ing. Angel HUMINIC





FIŞA PENTRU VERIFICAREA STANDARDELOR MINIMALE

domeniul ştiinţific "Inginerie mecanică"

Îndeplinirea indicatorilor specifici de evaluare

Dr ing. Angel HUMINIC

Criteriul CDI, minim 10 – Activitatea de cercetare, dezvoltare tehnologică şi inovare	203.300	Criteriul DID, minim 10 – Activitatea didactică şi profesională	19.20	Criteriul RIA, minim 10 – Recunoaşterea şi impactul activităţii	17.544
Contribuţie principală, minim 6	201.930	Contribuţie principală, minim 6	13.20	Contribuţie principală, minim 6	10.244
Contribuţie complementară	1.370	Contribuţie complementară	6.000	Contribuţie complementară	7.300
Indicator	Punctaj	Indicator	Punctaj	Indicator	Punctaj

Criteriul CDI

Activitate de cercetare ştiinţifică, dezvoltare tehnologică şi inovare

Contribuţie principală

Articole ştiinţifice publicate în reviste de specialitate cotate ISI (CDI-ART)

$1 \text{ articol} = FI^*_{\text{articol}} + \sum FI^*_{\text{citare}}$; $FI^* = 0.1 + \text{Factor de impact (2012)}$

Nr. crt.	Referinţa bibliografică (ISI / Scopus)	FI articol	FI* articol		Puncte /articol
19.	Huminic G., Huminic A., "Numerical study on heat transfer characteristics of thermosyphon heat pipes using nanofluids", Energy Conversion and Management, Volume 76, 2013, Pages 393-399, ISSN: 01968904, doi: 10.1016/j.enconman.2013.07.026	2.775	2.875		16.683
Citări (Web of Science / Scopus)		FI citare	FI* citare	$\sum FI^*_{\text{citare}}$	
19.1	Aly W.I.A., "Numerical study on turbulent heat transfer and pressure drop of nanofluid in coiled tube-in-tube heat exchangers", Energy Conversion and Management, Volume 79, March 2014, pp. 304-316, ISSN: 01968904, doi: 10.1016/j.enconman.2013.12.031	2.775	2.875	13.808	

19.2	Ting T. W., et al., "Effects of streamwise conduction on thermal performance of nanofluid flow in microchannel heat sinks", Energy Conversion and Management, Volume 78, 2014, Pages 14-23, ISSN: 01968904, doi: 10.1016/j.enconman.2013.10.061	2.775	2.875		
19.3	Chehade A.A., et al., "Experimental investigation of thermosyphon loop thermal performance", Energy Conversion and Management Volume 84, August 2014, Pages 671-680, ISSN: 01968904, doi: 10.1016/j.enconman.2014.04.092	2.775	2.875		
19.4	Alawi, O.A., et al., "Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review", International Communications in Heat and Mass Transfer, Volume 56, August 2014, Pages 50-62, ISSN: 07351933, doi: 10.1016/j.icheatmasstransfer.2014.04.014	2.208	2.308		
19.5	Karami N., Rahimi, M., " Heat transfer enhancement in a PV cell using Boehmite nanofluid", Energy Conversion and Management Volume 86, October 2014, Pages 275-285, ISSN: 01968904, doi: 10.1016/j.enconman.2014.05.037	2.775	2.875		
18.	Huminic G., Huminic A., "Numerical Analysis of Laminar Flow Heat Transfer of Nanofluids in a Flattened Tube", International Communications in Heat and Mass Transfer, Volume 44, May 2013, Pages 52-57, ISSN: 07351933 doi: 10.1016/j.icheatmasstransfer.2013.03.003	2.208	2.308		4.238
18.1	Tohidi A., et al., "Laminar Heat Transfer Enhancement Utilizing Nanofluids in a Chaotic Flow", Journal of Heat Transfer, Volume 136, Issue 9, June 2014, Pages 8, ISSN 0022-1481, doi: 10.1115/1.4027773	1.830	1.930	1.930	
17.	Huminic A., Huminic, G., "Numerical Flow Simulation for a Generic Vehicle Body on Wheels with Variable Underbody Diffuser", SAE Technical Paper 2012-01-0172, 2012, doi: 10.4271/2012-01-0172		0.1		0.1
16.	Huminic A., Huminic G., Şoica A., "Study of aerodynamics for a simplified car model with the underbody shaped as a Venturi nozzle", International Journal of Vehicle Design, Volume 58, Issue 1, March 2012, Pages 15-32, ISSN: 01433369 doi: 10.1504/IJVD.2012.045927	0.509	0.609		2.213
Citari (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
16.1	Sudin M.N. et al., " Review of research on vehicles aerodynamic drag reduction methods", International Journal of Mechanical and Mechatronics Engineering, Volume 14, Issue 2, 2014, pp. 35-47, ISSN: 22272771, paper id:145302-6868-IJMME-IJENS	1.504	1.604	1.604	
15.	Huminic G., Huminic A., "The Cooling Performances Evaluation of Nanofluids in a Compact Heat Exchanger", SAE Technical Paper 2012-01-1045, 2012, doi:10.4271/2012-01-1045		0.1		5.827
Citari (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
15.1	Hussein A.M. et al., "A review of forced convection heat transfer enhancement and hydrodynamic characteristics of a nanofluid", Renewable and Sustainable Energy Reviews, Volume 29, 2014, 734-743, ISSN: 13640321, doi: 10.1016/j.rser.2013.08.014	5.627	5.727	5.727	
14.	Huminic G., Huminic A, "Application of nanofluids in heat exchangers: A Review", Renewable and Sustainable Energy Reviews, Volume 16, Issue 8, October 2012, Pages 5625-5638 ISSN: 13640321, doi: 10.1016/j.rser.2012.05.023	5.627	5.727		48.895

Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}
14.1	Khoshvaght-Aliabadi M., et al., "Effects of geometrical parameters on performance of plate-fin heat exchanger: Vortex-generator as core surface and nanofluid as working media", Applied Thermal Engineering, Volume 70, Issue 1, 5 September 2014, Pages 565-579, ISSN 1359-4311, doi: 10.1016/j.applthermaleng.2014.04.026	2.127	2.227	43.168
14.2	Atashrouz S., et al., "Estimation of the viscosity of nine nanofluids using a hybrid GMDH-type neural network system", Fluid Phase Equilibria, Volume 372, 25 June 2014, Pages 43-48, ISSN 0378-3812, doi: 10.1016/j.fluid.2014.03.031	2.379	2.479	
14.3	Nine M.J., et al., "Is metal nanofluid reliable as heat carrier", Journal of Hazardous Materials', Volume 273, 30 May 2014, Pages 183-191, ISSN 1873-3336, doi: 10.1016/j.jhazmat.2014.03.055	3.925	4.025	
14.4	Batmunkh, M., et al., "Thermal conductivity of TiO ₂ nanoparticles based aqueous nanofluids with an addition of a modified silver particle", Industrial and Engineering Chemistry Research, Volume 53, Issue 20, 21 May 2014, Pages 8445-8451, ISSN 1520-5045, DOI: 10.1021/ie403712f	2.206	2.306	
14.5	Al-Nimr M.A., Al-Dafaie A.M.A., "Using nanofluids in enhancing the performance of a novel two-layer solar pond", Energy, Volume 68, 15 April 2014, Pages 318-326, ISSN 0360-5442, DOI: 10.1016/j.energy.2014.03.023	3.651	3.751	
14.6	Halelfadl S., et al., "Efficiency of carbon nanotubes water based nanofluids as coolants", Experimental Thermal and Fluid Science, Volume 53, 2014, Pages 104-110, ISSN: 08941777, doi:10.1016/j.expthermflusci.2013.11.010	1.595	1.695	
14.7	Gurav P., et al., "Stable colloidal copper nanoparticles for a nanofluid: Production and application", Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 441, 2014, Pages 589-597, ISSN: 09277757, doi:10.1016/j.colsurfa.2013.10.026	2.108	2.208	
14.8	Vermahmoudi Y., et al., "Experimental investigation on heat transfer performance of Fe ₂ O ₃ /water nanofluid in an air-finned heat exchanger", European Journal of Mechanics - B/Fluids, Volume 44, March–April 2014, Pages 32–41, ISSN: 09977546, doi: 10.1016/j.euromechflu.2013.10.002	1.635	1.735	
14.9	Chen, T.Y. et al., "Performance analysis of Alwater nanofluid with cationic chitosan dispersant", Advances in Materials Science and Engineering, Volume 2013, Article number 686409, ISSN: 16878434, doi:10.1155/2013/686409	0.500	0.600	
14.10	Khoshvaght-Aliabadi M., et al., "Wavy Channel and Different Nanofluids Effects on Performance of Plate-Fin Heat Exchangers", Journal of Thermophysics and Heat Transfer, 2014, doi:10.2514/1.T4209	0.881	0.981	
14.11	Safikhani H. et al., "Modeling and Optimization of Nanofluid Flow in Flat Tubes Using a Combination of CFD and Response Surface Methodology", Heat Transfer—Asian Research, 2014 doi:10.1002/htj.21126		0.1	
14.12	Halelfadl S., et al., "Heat transfer properties of aqueous carbon nanotubes nanofluids in coaxial heat exchanger under laminar regime", Experimental Thermal and Fluid Science, 2014, doi:10.1016/j.expthermflusci.2014.03.003	1.595	1.695	

14.13	Taghizadeh Tabari Z., Zeinali Heris S., "Heat Transfer Performance of Milk Pasteurization Plate Heat Exchangers Using MWCNT/Water Nanofluid", Journal of Dispersion Science and Technology, 2014, doi:10.1080/01932691.2014.894917	0.600	0.700		
14.14	Ricardo F.P. et al., "A comparative parametric study on single-phase Al2O3-water nanofluid exchanging heat with a phase-changing fluid", International Journal of Thermal Sciences, Volume 74, December 2013, 190-198, doi:10.1016/j.ijthermalsci.2013.06.014	2.470	2.570		
14.15	Tiwari A.K. et al., "Performance comparison of the plate heat exchanger using different nanofluids", Experimental Thermal and Fluid Science, Volume 49, 2013, Pages 141-151, ISSN: 08941777, doi:10.1016/j.expthermflusci.2013.04.012	1.595	1.695		
14.16	Abdullah S. et al., "Clinicopathological features and immuno-histochemical detection of antigens in acute experimental Streptococcus agalactiae infection in red tilapia", SpringerPlus, Volume 2, Issue 1, 2013, Pages 1-7, ISSN: 21931801, doi:10.1186/2193-1801-2-286		0.1		
14.17	Cabaleiro D., et al., "Rheological and volumetric properties of TiO2-ethylene glycol nanofluids", Nanoscale Research Letters, Volume 8, Issue 1, 2013, ISSN: 19317573, doi: 10.1186/1556-276X-8-286	2.524	2.624		
14.18	Wu Z., et al., "Pressure drop and convective heat transfer of water and nanofluids in a double-pipe helical heat exchanger", Applied Thermal Engineering, Volume 60, Issue 1-2, 2013, Pages 266-274, ISSN: 13594311, doi:10.1016/j.applthermaleng.2013.06.051	2.127	2.227		
14.19	Chehade A.A., et al., "Boiling local heat transfer enhancement in minichannels using nanofluids", Nanoscale Research Letters, Volume 8, Issue 1, 2013, Pages 1-20, ISSN: 19317573, ISSN: 13594311, doi:10.1186/1556-276X-8-130	2.524	2.624		
14.20	Javadi F.S., et al., "The effects of nanofluid on thermophysical properties and heat transfer characteristics of a plate heat exchanger", International Communications in Heat and Mass Transfer, Volume 44, May 2013, Pages 58-63, ISSN: 07351933, doi:10.1016/j.icheatmasstransfer.2013.03.017	2.208	2.308		
14.21	Tiwari, A.K., et al., "Heat transfer and pressure drop characteristics of CeO2/water nanofluid in plate heat exchanger", Applied Thermal Engineering, Volume 57, Issue 1-2, 2013, Pages 24-32, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2013.03.047	2.127	2.227		
14.22	Mital M., "Semi-analytical investigation of electronics cooling using developing nanofluid flow in rectangular microchannels", Applied Thermal Engineering, Volume 52, Issue 2, 2013, Pages 321-327, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2012.12.020	2.127	2.227		
14.23	Mital M., "Evolutionary optimization of electronic circuitry cooling using nanofluid", Modelling and Simulation in Engineering, Volume 2012, 2012, Article number 793462, ISSN: 16875591, doi: 10.1155/2012/793462		0.1		
13.	Huminic G., Huminic A., "Heat transfer characteristics in double tube helical heat exchangers using nanofluids", International Journal of Heat and Mass Transfer, Volume 54, Issue 19-20, 2011, Pages 4280-4287, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2011.05.017	2.315	2.415		34.459

Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
13.1.	Narrein K., Mohammed H.A., "Heat transfer and fluid flow characteristics in helically coiled tube heat exchanger (HCTHE) using nanofluids: A review", Journal of Computational and Theoretical Nanoscience, Volume 11, Issue 4, 2014, Pages 911-927, doi: 10.1166/jctn.2014.3445	0.673	0.773	32.044	
13.2.	Aly W.I.A., "Numerical study on turbulent heat transfer and pressure drop of nanofluid in coiled tube-in-tube heat exchangers", Energy Conversion and Management, Volume 79, 2014, Pages 304-316, doi: 10.1016/j.enconman.2013.12.031	2.775	2.875		
13.3.	Kahani M. et al., "Effects of Curvature Ratio and Coil Pitch Spacing on Heat Transfer Performance of Al ₂ O ₃ /Water Nanofluid Laminar Flow through Helical Coils", Journal of Dispersion Science and Technology, Volume 34, Issue 12, 2013, Pages 1704-1712 doi: 10.1080/01932691.2013.764485	0.600	0.700		
13.4.	Bahiraie M., Hangi M., "Investigating the efficacy of magnetic nanofluid as a coolant in double-pipe heat exchanger in the presence of magnetic field", Energy Conversion and Management, Volume 76, 2013, Pages 1125-1133, doi: 10.1016/j.enconman.2013.09.008	2.775	2.875		
13.5.	Mahian O. et al., "A review of entropy generation in nanofluid flow", International Journal of Heat and Mass Transfer, Volume 65, 2013, Pages 514-532, doi:10.1016/j.ijheatmasstransfer.2013.06.010	2.315	2.415		
13.6.	Sundar L.S. et al., "Empirical and theoretical correlations on viscosity of nanofluids: A review", Renewable and Sustainable Energy Reviews, Volume 25, 2013, Pages 670-686, doi: 10.1016/j.rser.2013.04.003	5.627	5.727		
13.7.	Narrein K., Mohammed, H.A., "Influence of nanofluids and rotation on helically coiled tube heat exchanger performance", Thermochimica Acta, Volume 564, 2013, Pages 13-23, doi: 10.1016/j.tca.2013.04.004	1.989	2.089		
13.8.	Michaelides E.E., "Transport properties of nanofluids. A critical review", Journal of Non-Equilibrium Thermodynamics, Volume 38, Issue 1, 2013, Pages 1-79, doi: 10.1515/jnetdy-2012-0023	1.000	1.100		
13.9.	Akbaridoust F. et al., "Experimental and numerical investigation of nanofluid heat transfer in helically coiled tubes at constant wall temperature using dispersion model", International Journal of Heat and Mass Transfer, Volume 58, Issue 1-2, 2013, Pages 480-491 doi: 10.1016/j.ijheatmasstransfer.2012.11.064	2.315	2.415		
13.10	Gorman J.M. et al., "Operating characteristics and fabrication of a uniquely compact helical heat exchanger", Applied Thermal Engineering, Volume 50, Issue 1, 2013, Pages 1070-1075, doi: 10.1016/j.applthermaleng.2012.06.023	2.127	2.227		
13.11	Syam-Sundar L., Singh M.K., "Convective heat transfer and friction factor correlations of nanofluid in a tube and with inserts: A review", Renewable and Sustainable Energy Reviews, Volume 20, 2013, Pages 23-35, doi: 10.1016/j.rser.2012.11.041	5.627	5.727		
13.12	Mohammed H.A., Narrein K., "Thermal and hydraulic characteristics of nanofluid flow in a helically coiled tube heat exchanger", International Communications in Heat and Mass Transfer, Volume 39, Issue 9, 2012, Pages 1375-1383, doi: 10.1016/j.icheatmasstransfer.2012.07.019	2.208	2.308		

13.13	Mukesh Kumar, P.C. et al., "Heat transfer and friction factor studies in helically coiled tube using Al 20 3/water nanofluid", European Journal of Scientific Research, Volume 82, Issue 2, July 2012, Pages 161-172	0.713	0.813		
12.	Huminić G., Huminić A., "Heat transfer characteristics of a two-phase closed thermosyphons using nanofluids", Experimental Thermal and Fluid Science, Volume 35, Issue 3, 2011, Pages 550-557, ISSN: 08941777, doi: 10.1016/j.expthermflusci.2010.12.009	1.595	1.695		41.238
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
12.1.	Kumaresan G., et al., "Experimental investigation on enhancement in thermal characteristics of sintered wick heat pipe using CuO nanofluids", International Journal of Heat and Mass Transfer, Volume 72, 2014, Pages 507-516, doi: 10.1016/j.ijheatmasstransfer.2014.01.029	2.315	2.415	39.543	
12.2.	Heris S.Z., et al., "Effect of electric field on thermal performance of thermosyphon heat pipes using nanofluids", Materials Research Bulletin, Volume 53, 2014, Pages 21-27, doi: 10.1016/j.materresbull.2014.01.030	1.913	2.013		
12.3.	Jiang F., et al., "Heat transfer enhancement in a three-phase closed thermosyphon", Applied Thermal Engineering, Volume 65, Issue 1-2, 2014, Pages 495-501, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2014.01.043	2.127	2.227		
12.4.	Shanbedi M., et al., "Improvement in Heat Transfer of a Two-Phased Closed Thermosyphon Using Silver-Decorated MWCNT/Water", Journal of Dispersion Science and Technology, Volume 35, Issue 8, August 2014, Pages 1086-1096, ISSN 1532-2351, DOI: 10.1080/01932691.2013.833101	0.600	0.700		
12.5.	Alawi O.A., et al., "Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review", International Communications in Heat and Mass Transfer, Volume 56, August 2014, Pages 50-62, ISSN 0735-1933, DOI: 10.1016/j.icheatmasstransfer.2014.04.014	2.208	2.308		
12.6.	Alawi O.A., et al., "A comprehensive review of fundamentals, preparation and applications of nanorefrigerants", International Communications in Heat and Mass Transfer, Volume 54, May 2014, Pages 81-95, ISSN 0735-1933, DOI: 10.1016/j.icheatmasstransfer.2014.03.001	2.208	2.308		
12.7.	Kahani M., et al., "Effects of Curvature Ratio and Coil Pitch Spacing on Heat Transfer Performance of Al ₂ O ₃ /Water Nanofluid Laminar Flow through Helical Coils", Journal of Dispersion Science and Technology, Volume 34, Issue 12, December 2013, Pages 1704-1712, ISSN 01932691, doi: 10.1080/01932691.2013.764485	0.600	0.700		
12.8.	Buschmann M.H., "Nanofluids in thermosyphons and heat pipes: Overview of recent experiments and modelling approaches", International Journal of Thermal Sciences, Volume 72, 2013, Pages 1-17, ISSN 12900729, doi: 10.1016/j.ijthermalsci.2013.04.024	2.470	2.570		
12.9.	Zhang L., et al., "The heat transfer enhancement characteristics of nanofluids under the condition of synchronous vibration with piston", Shiyan Liuti Lixue/Journal of Experiments in Fluid Mechanics, Volume 27, Issue 4, 2013, Pages 32-39, ISSN: 16729897		0.100		

12.10	Kamyar A. et al., "Effects of nanofluids on heat transfer characteristics of a two-phase closed thermosyphon", International Journal of Heat and Mass Transfer, Volume 65, 2013, Pages 610-618, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2013.06.046	2.315	2.415		
12.11	Brusly Solomon, A., et al., "Thermal performance of anodized two phase closed thermosyphon (TPCT)", Experimental Thermal and Fluid Science, Volume 48, July 2013, Pages 49-57, ISSN: 08941777, doi: 10.1016/j.expthermflusci.2013.02.007	1.595	1.695		
12.12	Cheng L., Liu L., "Boiling and two-phase flow phenomena of refrigerant-based nanofluids: Fundamentals, applications and challenges", International Journal of Refrigeration, Volume 36, Issue 2, 2013, pp 421-446, ISSN: 01407007, doi: 10.1016/j.ijrefrig.2012.11.010	1.793	1.893		
12.13	Sureshkumar R., et al., "Heat transfer characteristics of nanofluids in heat pipes: A review", Renewable and Sustainable Energy Reviews, Volume 20, 2013, Pages 397-410, ISSN: 13640321 doi: 10.1016/j.rser.2012.11.044	5.627	5.727		
12.14	Chen Y.-J., et al., "Application of water-based SiO ₂ functionalized nanofluid in a loop thermosyphon", International Journal of Heat and Mass Transfer, Volume 56, Issue 1-2, 2013, Pages 59-68, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2012.09.048	2.315	2.415		
12.15	Hung Y.-H., et al., "Evaluation of the thermal performance of a heat pipe using alumina nanofluids", Experimental Thermal and Fluid Science, Volume 44, 2013, Pages 504-511, ISSN: 08941777 doi: 10.1016/j.expthermflusci.2012.08.012	1.595	1.695		
12.16	Keshavarz Moraveji M., Razvarz S., "Experimental investigation of aluminum oxide nanofluid on heat pipe thermal performance", International Communications in Heat and Mass Transfer, Volume 39, Issue 9, 2012, Pages 1444-1448, ISSN: 07351933, doi: 10.1016/j.icheatmasstransfer.2012.07.024	2.208	2.308		
12.17	Liu Z.-H., Li Y.-Y., "A new frontier of nanofluid research - Application of nanofluids in heat pipes", International Journal of Heat and Mass Transfer, Volume 55, Issue 23-24, 2012, Pages 6786-6797, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2012.06.086	2.315	2.415		
12.18	Firouzfard E., et al., "Investigation of heat pipe heat exchanger effectiveness and energy saving in air conditioning systems using silver nanofluid", International Journal of Environmental Science and Technology, Volume 9, Issue 4, 2012, Pages 587-594, ISSN: 17351472, doi: 10.1007/s13762-012-0051-9	1.844	1.944		
12.19	Lei Y., et al., "Experimental study on thermal uniformity of optical transmitter and receiver on near space", Experimental Thermal and Fluid Science, Volume 35, Issue 7, 2011, pp. 1463-1472, ISSN: 08941777, doi: 10.1016/j.expthermflusci.2011.06.005	1.595	1.695		
11.	Huminic G., Huminic A., Morjan I., Dumitrache F., "Experimental study of the thermal performance of thermosyphon heat pipe using iron oxide nanoparticles", International Journal of Heat and Mass Transfer, Volume 54, Issue 1-3, 2011, Pages 656-661, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2010.09.005	2.315	2.415		43.305

Citari (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}
11.1.	Heris S.Z., et al., "Effect of electric field on thermal performance of thermosyphon heat pipes using nanofluids", Materials Research Bulletin, Volume 53, 2014, Pages 21-27, ISSN: 00255408 doi: 10.1016/j.materresbull.2014.01.030	1.913	2.013	40.890
11.2.	Kannan M., et al., "An experimental study on heat transport capability of a two phase thermosyphon charged with different working fluids", American Journal of Applied Sciences, Volume 11, Issue 4, 2014, Pages 584-591, ISSN: 15543641, doi: 10.3844/ajassp.2014.584.591		0.1	
11.3.	Jiang F., et al., "Heat transfer enhancement in a three-phase closed thermosyphon", Applied Thermal Engineering, Volume 65, Issue 1-2, 2014, Pages 495-501, ISSN: 13594311, doi: 10.1016/j.applthermaleng.2014.01.043	2.127	2.227	
11.4.	Buschmann M.H., Franzke U., "International Journal of Refrigeration", Volume 40, April 2014, Pages 416-428, ISSN: 01407007, DOI: 10.1016/j.ijrefrig.2013.11.022	1.793	1.893	
11.5.	Shanbedi M., et al., "Improvement in Heat Transfer of a Two-Phased Closed Thermosyphon Using Silver-Decorated MWCNT/Water", Journal of Dispersion Science and Technology, Volume 35, Issue 8, August 2014, Pages 1086-1096, ISSN 1532-2351, DOI: 10.1080/01932691.2013.833101	0.600	0.700	
11.6.	Alawi O.A., et al., "Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review", International Communications in Heat and Mass Transfer, Volume 56, August 2014, Pages 50-62, ISSN 0735-1933, DOI: 10.1016/j.icheatmasstransfer.2014.04.014	2.208	2.308	
11.7.	Zhang Y., et al., "Temperature distribution of fluids in a two-section two-phase closed thermosyphon wellbore", Petroleum Science Volume 11, Issue 2, June 2014, Pages 287-292, ISSN 1995-8226, DOI: 10.1007/s12182-014-0342-5	0.534	0.634	
11.8.	Chaudhari N.E., et al., "Computational fluid dynamics analysis of two-phase thermosyphon", International Journal of Engineering and Technology, Volume 5, Issue 5, 2013, pp, 3794-3800, ISSN: 23198613		0.1	
11.9.	Asirvatham L.G., et al., "Operational limitations of heat pipes with silver-water nanofluids", Journal of Heat Transfer, Volume 135, Issue 11, 2013, Article number 111011, ISSN: 00221481, doi: 10.1115/1.4024616	1.718	1.818	
11.10	Gong Y.Y., et al., "Heat transfer enhancement of the heat pipe using SiO ₂ -water nanofluid, Advanced Materials Research, Volume 805-806, 2013, Pages 570-573, ISSN: 10226680 doi: 10.4028/www.scientific.net/AMR.805-806.570		0.1	
11.11	Buschmann M.H., "Nanofluids in thermosyphons and heat pipes: Overview of recent experiments and modelling approaches", International Journal of Thermal Sciences, Volume 72, October 2013, pp. 1-17, ISSN: 12900729, doi: 10.1016/j.ijthermalsci.2013.04.024	2.47	2.57	
11.12	Promdee K., Vitidsant T., "Bio-oil synthesis by pyrolysis of cogongrass (Imperata Cylindrica)", Chemistry and Technology of Fuels and Oils, Volume 49, Issue 4, 2013, Pages 287-292, ISSN: 00093092, doi: 10.1007/s10553-013-0443-7	0.116	0.216	

11.13	Zafarani-Moattar M.T., Majdan-Cegincara R., "Stability, rheological, magnetorheological and volumetric characterizations of polymer based magnetic nanofluids", Colloid and Polymer Science, Volume 291, Issue 8, August 2013, Pages 1977-1987, ISSN: 0303402X doi: 10.1007/s00396-013-2936-7	2.161	2.262		
11.14	Kamyar A., et al., "Effects of nanofluids on heat transfer characteristics of a two-phase closed thermosyphon", International Journal of Heat and Mass Transfer, Volume 65, 2013, Pages 610-618, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2013.06.046	2.315	2.415		
11.15	Brusly-Solomon A., et al., "Thermal performance of anodized two phase closed thermosyphon (TPCT)", Experimental Thermal and Fluid Science, Volume 48, July 2013, Pages 49-57, ISSN: 08941777, doi: 10.1016/j.expthermflusci.2013.02.007	1.595	1.695		
11.16	Asmaie L., et al., "Thermal performance analysis of nanofluids in a thermosyphon heat pipe using CFD modeling", Heat and Mass Transfer/Waerme- und Stoffuebertragung, Volume 49, Issue 5, 2013, pp. 667-678, ISSN: 09477411, doi: 10.1007/s00231-013-1110-6	0.840	0.940		
11.17	Sureshkumar R., et al., "Heat transfer characteristics of nanofluids in heat pipes: A review", Renewable and Sustainable Energy Reviews, Volume 20, 2013, Pages 397-410, ISSN: 13640321, doi: 10.1016/j.rser.2012.11.044	5.627	5.727		
11.18	Chen Y.-J., et al., "Application of water-based SiO ₂ functionalized nanofluid in a loop thermosyphon", International Journal of Heat and Mass Transfer, Volume 56, Issue 1-2, 1 January 2013, Pages 59-68, ISSN: 00179310, doi: 10.1016/j.ijheatmasstransfer.2012.09.048	2.315	2.415		
11.19	Shanbedi M., et al., "Prediction of temperature performance of a two-phase closed thermosyphon using Artificial Neural Network", Heat and Mass Transfer/Waerme- und Stoffuebertragung, Volume 49, Issue 1, January 2013, Pages 65-73, ISSN: 09477411 doi: 10.1007/s00231-012-1066-y	0.840	0.940		
11.20	Liu Z.-H., Li Y.-Y., "A new frontier of nanofluid research - Application of nanofluids in heat pipes", International Journal of Heat and Mass Transfer, Volume 55, Issue 23-24, November 2012, Pages 6786-6797, ISSN: 00179310, doi:10.1016/j.ijheatmasstransfer.2012.06.086	2.315	2.415		
11.21	Yousefi T., et al., "Effect of Al ₂ O ₃ nanofluids on the thermal performance of a sintered heat pipe", 6th International Conference on Thermal Engineering Theory and Applications, Istanbul, Turkey, 2012, Code 92657, ISBN: 978-192676908-0		0.1		
11.22	Firouzfard E., et al., "Investigation of heat pipe heat exchanger effectiveness and energy saving in air conditioning systems using silver nanofluid", International Journal of Environmental Science and Technology, Volume 9, Issue 4, 2012, Pages 587-594, ISSN: 17351472, doi: 10.1007/s13762-012-0051-9	1.844	1.944		
11.23	Zhang L., et al., "An experimental investigation of a natural circulation heat pipe system applied to a parabolic trough solar collector steam generation system", Solar Energy, Volume 86, Issue 3, 2012, Pages 911-919, ISSN: 0038092X, doi: 10.1016/j.solener.2011.11.020	2.952	3.052		

11.24	Shanbedi M., et al., "Investigation of Heat-Transfer Characterization of EDA-MWCNT/DI-Water Nanofluid in a Two-Phase Closed Thermosyphon", Industrial & Engineering Chemistry Research, Volume 51, Issue 3, 25 January 2012, Pages 1423-1428, ISSN: 08885885, doi: 10.1021/ie202110g	2.206	2.306		
10.	Huminic G., Huminic A., "Study on Thermal Performances of the Heat Pipes with Water - Nanoparticles Mixture", SAE Technical Paper 2010-01-0183, 2010, doi:10.4271/2010-01-0183.		0.1		0.2
Citari (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
10.1.	Hadi Salehi et al., "Effects of a Nanofluid and Magnetic Field on the Thermal Efficiency of a Two-Phase Closed Thermosyphon", Heat Transfer—Asian Research, Volume 42, Issue 7, pages 630–650, 2013, doi: 10.1002/htj.21043		0.1	0.1	
9.	Huminic A., Huminic G., "Computational Study of Flow in the Underbody Diffuser for a Simplified Car Model," SAE Technical Paper 2010-01-0119, 2010, doi:10.4271/2010-01-0119		0.1		0.3
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
9.1.	Daryakenari B. et al., "Numerical Study of Multiple Channel Road Vehicle Underbody Diffusers", International Review of Mechanical Engineering, Volume 6 (3), 2012, pp. 583-587.		0.1	0.2	
9.2.	Ramakrishnan, V., Soundararaju, D., Karbon, K., and Jha, P., "A Numerical Approach to Evaluate the Aerodynamic Performance of Vehicle Exterior Surfaces," SAE Technical Paper 2011-01-0180, 2011, doi:10.4271/2011-01-0180		0.1		
8.	Huminic A. and Huminic G., "CFD Study Concerning the Influence of the Underbody Components on Total Drag for a SUV", SAE Technical Paper 2009-01-1157, 2009, doi:10.4271/2009-01-1157.		0.1		0.560
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
8.1.	Jory K. et al., "Computational drag analysis in the under-body for a sedan type car model", International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2013, Article number 6533481, Pages 765-770		0.1	0.460	
8.2.	Wang J.-Y et al., "Influence of tail-end styling on aerodynamic characteristics of minibus", Journal of Jilin University (Engineering and Technology Edition), Volume 41, Issue 3, 2011, Pages 618-622	0.260	0.360		
7.	Huminic G., Huminic A., " CFD study of the heat pipes with water-nanoparticles mixture", Proceeding of European Automotive Simulation Conference, EASC 2009, Munich, pp. 217-228,				0.1
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
7.1.	Salehi H., et al., "Effects of a nanofluid and magnetic field on the thermal efficiency of a two-phase closed thermosyphon", Heat Transfer - Asian Research, Volume 42, Issue 7, November 2013, Pages 630-650, ISSN: 10992871, doi: 10.1002/htj.21043		0.1	0.1	
6.	Huminic G., Huminic A., "Entropy analysis of isobar - isothermal processes, Revista de Chimie", Volume 60(5), 2009, pg. 518-523.	0.538	0.638		0.638
5.	Huminic A. and Huminic G., "On the Aerodynamics of the Racing Cars," SAE Technical Paper 2008-01-0099, 2008, doi:10.4271/2008-01-0099.		0.1		0.1

4.	Huminic G., Huminic A., "New synergy analysis of alternative refrigerants used in refrigerating transport", <i>International Journal of Low Carbon Technologies</i> , Volume 3, Issue 1, January 2008, Pages 12-23, doi: 10.1093/ijlct/3.1.12		0.1		0.1
3.	Huminic A. and Chiru A., "On CFD Investigations of Vehicle Aerodynamics with Rotating Wheels' Simulation," SAE Technical Paper 2006-01-0804, 2006, doi:10.4271/2006-01-080		0.1		1.261
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
3.1	YANG Y., et al., "Improved research of automobile underbody flow filed based on aerodynamic lift", <i>Journal of Central South University (Science and Technology)</i> , Vol.44 No.10, 2013, ISSN 1672-7207, pp. 4064-4068	0.36	0.46	1.161	
3.2	Wang G., et al., "Research on aerodynamic characteristics of steel wheel", 2010 2nd International Conference on Computational Intelligence and Natural Computing, CINC 2010, Volume 2, 2010, Article number 5643744, Pages 237-239		0.1		
3.3	Satya Prasad M., Watkins S., "Vehicle wheel aerodynamic testing, using the double-symmetry technique", <i>International Journal of Vehicle Design</i> , vol. 48, no. 1-2/2008, pg 81-96, doi:10.1504/IJVD.2008.021153.	0.501	0.601		
2.	Huminic A., Lutz Th., "CFD Study of Ground Effect Simulation", <i>Proceedings of HEFAT2005, 4th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics</i> , 2005, Cairo, Egypt, ISBN 1-86854-624-1				1.154
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
2.1	Schmid S., Lutz Th., Kramer E., "Impact of Modelling Approaches on the Prediction of the Ground Effect Aerodynamics", <i>Engineering Applications of Computational Fluid Mechanics</i> , Vol. 3, No. 3, pp. 419-429, 2009, ISSN 1994-2060	1.144	1.155	1.154	
1.	Benche V., Huminic A., "Transient processes for vent-ejectors assisted by Coandă effect", <i>Scientific Bulletin of the Politehnica University of Timisoara Transactions on Mechanics, Special Issue</i> , 2004, pp. 433-438,				2.779
Citări (Web of Science / Scopus)		FI_{citare}	FI^*_{citare}	ΣFI^*_{citare}	
1.1	Valentína D., et al., "Use of Coandă nozzles for double glazed façades forced ventilation", <i>Energy and Buildings</i> , Volume 62, July 2013, Pages 605-614	2.679	2.779	2.779	

Contribuție complementară

Monografii de specialitate sau capitole în monografii de specialitate (CDI-MON): 1 punct = 50 pagini editură națională

Nr. crt.	Referința bibliografică	Nr. pagini	Puncte	TOTAL
1.	HUMINIC A., Notiuni Fundamentale de Aerodinamica Autovehiculelor, capitol publicat în Șoica A., Chiru A., Ispas N., Huminic A., "Caroserii și Sisteme de Siguranță Pasivă", Editura Universității Transilvania Brașov, ISBN 973-635-461-X, 2005.	67	1.37	1.37

Criteriul DID**Activitate didactică și profesională****Contribuție principală**

Manuale - suport de curs, format tipărit sau electronic (DID-MSC): 1 punct = 50 pagini

Nr. crt.	Referința bibliografică	Nr. pagini	Puncte	TOTAL
3.	HUMINIC A., "Mecanica Fluidelor", Universitatea Transilvania din Brașov, ISBN 978-606-19-0380-1, 2014	376	7.52	13.20
2.	HUMINIC A., "Fluid Mechanics - Theory and Applications", Editura Universității Transilvania din Brașov, ISBN 978-973-598-022-1, 2007	154	3.08	
1.	HUMINIC A., "Mecanica Fluidelor și Aerodinamică Experimentală - Noțiuni teoretice și Aplicații practice", Editura Universității Transilvania Brașov, ISBN 978-973-635-856-2, 2006	130	2.60	

Contribuție complementară

Standuri/instalații pentru activități didactice realizate (DID-LAB): 1 punct = 1 lucrare de laborator cu infrastructură realizată

Nr. crt.	Stand/instalație	Puncte	TOTAL
6.	Balanță aerodinamică cu trei componente	1	6
5.	Sistem de calcul mutiprocessor, 32 processor cores, 128 GB mRAM	1	
4.	Dispozitiv pentru determinarea caracteristicilor aerodinamice în efect de sol	1	
3.	Sistem pentru determinarea parametrilor curenților de aer	1	
2.	Sistem de achiziție date balanță aerodinamică.	1	
1.	Balanță aerodinamică cu patru componente.	1	

Criteriul RIA**Recunoaștere și impactul activității**

Contribuție principală: Director sau responsabil granturi și contracte (RIA-GRA, RIA-CTR)

Proiecte câștigate prin competiție internațională în calitate de director (1 punct = 10000 EUR)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (eur)	Punctaj
1.	"Ground Effect in Design of Vehicles - CFD Study Concerning the Behaviour of Clark-Y Airfoil in Ground Effect", Proiect desfășurat în cadrul programului HPC EUROPA (High Performance Computing) finanțat de Comisia Europeană, contract nr. RII3-CT-2003-506079, desfășurat la Institutul de Aerodinamică și Gazodinamică, Universitatea din Stuttgart, Germania, august - septembrie 2004, http://www.hpc-europa.eu/?q=node/119	2004	2500	0.25

Proiecte câștigate prin competiție națională în calitate de director (1 punct = 50000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
4.	"Optimizarea structurilor Aerodinamice Deportante de Automobile", contract PNII IDEI - CNCSIS, ID 758/2008, Universitatea Transilvania din Brașov	2010 2008	125340	2.507

3.	"Studiul Interacțiunii Aerodinamice Automobil - Cale de Rulare", contract CEEEX-ET CNC SIS, nr. 5885/18.09.2006, Universitatea Transilvania din Braşov	2008 2006	120000	2.400
2.	"Tehnici numerice şi experimentale de determinare a caracteristicilor aerodinamice ale automobilelor", Proiect BD, CNC SIS, Universitatea Transilvania din Braşov	2004 2003	3960	0.079
1.	"Analiza CFD a influenţei efectului de sol asupra caracteristicilor aerodinamice ale unui automobil de teren" - contract nr. 33.459/17.07.2002, CNC SIS, Universitatea Transilvania din Braşov	2003 2002	8600	0.172

Director contract cu beneficiar din mediul economic naţional (1 punct = 10000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
4.	"Calculul eficienţei energetice a hidroagregatului Francis" contract CA 1029/10.05.2013, S.C Hydro-Engineering S.A. Reşiţa - S.C. INAS Craiova	2013	43760	4.376
3.	"Determinarea caracteristicilor funcţionale ale turbinelor de vânt Windy 1 şi Windy 2", contract 7862/15.06.2010, COTA PFA - Universitatea Transilvania Brasov	2010	1800	0.18
2.	"Determinarea experimentală a parametrilor funcţionali ai prototipului unui reductor - regulator de presiune pentru argon", contract 19/31.07.2008, SC CABRIC Brasov - Universitatea Transilvania din Braşov	2008	1500	0.15
1.	"Determinarea caracteristicilor funcţionale ale turbinei de vânt Smoky", contract nr. 1/09.02.2004 între SC Smoky SRL Hărman, Braşov - Universitatea Transilvania din Braşov	2004	1297	0.130

Contribuţie complementară: Activitate de cercetare - dezvoltare - inovare în cadrul granturilor/proiectelor

Proiecte câştigate prin competiţie naţională în calitate de membru în echipă (0.25 puncte = 50000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Puncte
5.	"Aplicarea nanofluidelor la tuburile termice în vederea îmbunătăţirii performanţelor de sistemelor de răcire", PNII-IDEI, nr. 122/5.10.2011, Universitatea Transilvania din Braşov, coordonator dr ing. Gabriela Huminic	2014 2011	1021254.5	5.106
4.	"Influenţa profilului frontal al caroseriei asupra vătămării pietonilor", PNII-IDEI, CNC SIS, ID 218/2007, Universitatea Transilvania din Braşov, coordonator dr ing. Adrian Şoica	2010 2007	206000	1.030
3.	"Optimizarea transferului de caldură prin dispozitive bazate pe schimbarea de fază a lichidelor magnetice", PNII-IDEI, nr. 216/1.10.2007, Universitatea Transilvania din Braşov, coordonator dr ing. Gabriela Huminic	2010 2007	122915.5	0.615
2.	"Studiul teoretic şi experimental al accidentelor de circulaţie de tipul autoturism pieton", contract nr. 2/169 din 2004, CNC SIS - Universitatea Transilvania Braşov, coordonator dr ing. Adrian Şoica.	2005 2004	32000	0.160
1.	"Modelarea proceselor hemodinamice în sistemul carotidian uman", Contract nr. 3993/14.06.2000 CNC SU - Universitatea Transilvania din Braşov, coordonator prof. dr ing. Adrian Postelnicu.	2001 2000	4000	0.020

Membru în echipă, contract cu beneficiar din mediul economic național (0.25 puncte = 10000 RON)

Nr. crt.	Denumirea	Perioada de derulare	Valoare (lei)	Punctaj
5.	„Realizarea instalației experimentale pentru determinarea parametrilor funcționali ai prototipului unui reductor – regulator de presiune pentru argon”, contract nr. 18/31.07.2008, SC CABRIC Brasov, Universitatea Transilvania din Brașov	2008	800	0.020
4.	"Bilanț Termic pentru Cazan CAF 100 Gcal/ora și Bilanț Termic pentru Cazanul de Abur CR 16/1", contract nr. 06/09/2002, SC ROMAN ENERGETIC SA Brașov, Universitatea Transilvania din Brașov	2002	4470	0.112
3.	"Realizarea Bilanțurilor Energetice ale Cazanelor din Centrala de Abur a SC Rulmentul SA, Brașov și Propuneri de Îmbunătățire a Randamentelor Termice în Vederea Optimizărilor Energetice", contract nr. 07/09/2002, SC RULMENTUL SA Brașov, Universitatea Transilvania din Brașov	2002	7000	0.175
2.	"Consultanța și Bilanț Energetic, Reducerea Pierderilor de Energie Termică și Propuneri pentru Mărirea Randamentului Termic", contract nr. 08/09/2002, SC METROM SA Brașov, Universitatea Transilvania Brașov	2002	2490	0.062
1.	"Analiza Hidraulică a Liniei 7134-G027, a dimensionării 7134-PCV 313 și 7134-PCV 314, și a vibrațiilor din zona PCV 313 și PCV 314", contract SNN-SA Centrala Nucleo-Electrică Cernavodă (beneficiar), SC STEVENSON S.A, SC INAS Craiova, SC Eurotest București (executant)	2000		

07.07.2014

Director de departament,

Prof. Dr ing. mat. Sorin VLASE



Dr ing. Angel HUMINIC

