

STANDARDE MINIMALE NECESARE SI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN INVATAMANTUL SUPERIOR SI A GRADELOR PROFESIONALE DE CERCETARE - DEZVOLTARE

Anexa 17 - COMISIA INGINERIE MECANICA, MECATRONICA SI ROBOTICA - ORDINUL M.E.N. C. S. 6129/2016

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Nr.crt.	Domeniul activitatilor	Rezultatele activitatilor	Subcategoriile	Indicatori	Valoare indicatori realizati	
1	Activitate didactica si profesionala DID (A1)	Manuale suport de curs	Format tiparit/electronic (min. 100 pag.)	Coordonator/prim autor	N 1.1 = numar	3
				Co-autor	N 1.2 = numar	1
			Format electronic disponibil pe platforma universitatii/departamentului (autor)	N 1.3 = numar	2	
		Material didactic/ Dezvoltare laboratoare, aplicatii	A 1.2	Standuri laborator certificate de directorul departamentului	N 2.1 = numar	5
				Indrumar laborator/carte aplicatii format tiparit sauelectronic (autor, co-autor)	N 2.2 = numar	6
				Aplicatie informatica educationala	N 2.3 = numar	0
2	Activitate de cercetare stiintifica, dezvoltare tehnologica si inovare -CDI (A2)	Articole si publicatii stiintifice indexate Web of Science Thomson reuters (WOS), unde n=nr. De autori si FI este factorul de impact	A 2.1	Autor corespondent/prim autor	n<=3 P 1.1 = 2.(0.2+FI)	2.258
				n>=4 P 1.2 = 2.3.(0.2+FI)/n	2.634	
			Co-autor	n<=3 P 1.3 = 0.2+FI	0.000	
				n>=4 P 1.4 = 3.(0.2+FI)/n	5.323	
		Articole si publicatii stiintifice BDI neincluse la A 2.1	A 2.2	Autor corespondent/prim autor	N 3.1 = numar	5
				Co-autor	N 3.2 = numar	15
		Brevete de inventii indexate	A 2.3	Internationale indexate Web of Science - Derwent Innovation	P 2.1 = acelasi calcul cu A 2.1 si FI=2	0
				Nationale indexate OSIM	P 2.2 = calcul A 2.1 si FI=0.5	0
		Produse, tehnologii, platforme si servicii inovative	A 2.4	Coordonator/prim autor	N 4.1 = numar	0
				Co-autor	N 4.2 = numar	0
		Monografii/carti de specialitate, format tiparit/electronic (min. 100 pag)	A 2.5	Coordonator/prim autor	N 4.3 = numar	3
				Co-autor	N 4.4 = numar	3
3	Recunoastere a si impactul activitatii - RIA (A3)	Atragerea de resurse financiare prin granturi/ proiecte / contracte terti	A 3.1	Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala	S1 = suma echivalenta in mii Euro	0
				Membriu in echipa la grant/proiect castigat prin competitie nationala sau internationala, proiecte/contracte terti	S2 = suma echivalenta in mii Euro	97.625
		Prezentarea/diseminarea rezultatelor: prezenta la manifestari stiintifice in calitate de autor/co-autor de lucrari, profesor invitat	A 3.2	Congrese/conferinte/workshopuri internationale, profesor invitat la universitati/institute din strainatate	N 5 = numar	15
		Citari in publicatii BDI	A 3.3	C1 = numarul de citari SFI = suma factorilor de impact al publicatiilor WOS in care apar citarile	C = C1 + SFI	62.35

Conditii minimale si obligatorii			Realizat	
Domeniul de activitate		Indicatori	Profesor	
Activitate didactica si profesionala DID (A1)	A 1.1	N1	2	4
		N1.1	1	3
		N1.3	1	2
	A 1.2	N2	4	11
		N2.1	2	5
Activitate de cercetare (A2)	A2.1+A2.3	P1+P2	10	10.215
		P1	6	10.215
	A2.2	N3	10	20
		N3.1	5	5
	A2.4+A2.5	N4	2	6
		N4.3	1	3
Recunoasterea si impactul activitatii (A3)	A3.1	S1+S2	50	97.62
	A3.2	N5	10	15
	A3.3	C	25	62.35

$P1=P1.1+P1.2+P1.3+P1.4$; $P2=P2.1+P2.2$

$N1=N1.1+N1.2$; $N2=N2.1+N2.2+N2.3$;

$N3=N3.1+N3.2$

$N4=N4.1+N4.2+N4.3+N4.4$

Activitate didactica si profesionala DID (A1)**DID – A 1.1 Manuale suport de curs**

Nr. crt.	Autor(i)	Titlu	Format	Editura/adresa web	Anul	ISBN	Nr.pag.	Obs
1	Gruescu C.	Ingineria optica	tiparit	Politehnica	2012	978-606-554-551-9	326	N1.1
2	Nicoara I., Gruescu C., Stidaru C.	Fiabilitate si terotehnica	tiparit	Politehnica	2009	978-973-625-638-7	309	N1.2
3	Gruescu C.	Senzori optici si analiza imaginii	electronic		2010		121	N1.1
4	Gruescu C.	Optica tehnica	electronic	http://www.mec.upt.ro/corina.gruescu/	2010		118	N1.3
5	Gruescu C.	Fiabilitatea sistemelor mecatronice	electronic	http://www.mec.upt.ro/corina.gruescu/	2010		85	N1.3
6	Gruescu C.	Amenajarea ergonomica a mediului	electronic		2013		100	N1.1

Format tiparit/electronic

Format electronic disponibil pe platforma universitatii

Aplicatie informatica educationala

N1.1	3
N1.2	1
N1.3	2

DID A1.2 Material didactic/ Dezvoltare laboratoare, aplicatii

Standuri

de

laborator (N2.1)

Nr. crt.	Denumire stand	Anul	Laborator
1	Banc optic pentru masurarea caracteristicilor de referinta ale sistemelor optice	2009	OT
2	Sistem integrat cu microscop stereoscopic si sistem de preluare digitala a imaginii	2009	OT
3	Stand de masurare a puterii lentilelor oftalmice	2009	OT
4	Stand de masurare a razelor lentilelor sferice	2009	OT
5	Stand de evaluare a acuitatii vizuale	2009	OT

Indrumatoare de laborator (N2.2)

Nr. crt.	Autori	Titlu	Format	Editura	Anul	ISBN	Nr.pag.
1	Gruescu C., Bodea R., Pommersheim A.	Masurari optice	tiparit	Politehnica	2006	973-625-195-0	58
2	Gruescu C., Bodea R.	Elemente de analiza si sinteza a sistemelor optice. Aplicatii	tiparit	Politehnica	2006	ISBN 973-625-196-9	110
3	Gruescu C.	Optica tehnica. Aplicatii	electronic		2010		196
4	Gruescu C.	Fiabilitatea sistemelor mecatronice	electronic		2010		26
5	Gruescu C.	Senzori optici si analiza imaginii	electronic		2010		35
6	Gruescu C.	Amenajarea ergonomica a mediului	electronic		2013		24

Standuri de laborator

N2.1**5**

Indrumatoare de laborator

N2.2**6**

Aplicatie informatica educationala

N2.3**0**

Activitate de cercetare stiintifica, dezvoltare tehnologica si inovare -CDI (A2)
CDI A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson reuters (WOS), unde n=nr. de autori si FI este factorul de impact

Nr. Crt.	Autor(i)	Titlu	Date volum revista/conferinta	Anul	WOS	FI	P1.1 2*(0.2+ FI)	P1.2 2*3*(0.2 +FI)/n	P.1.3 0.2+FI	P1.4 3*(0. 2+FI) /n	P1
1	Lovasz E.-C., Mesaros-Anghel V., Gruescu C.M., Moldovan C.E., Ceccarelli M.	General algorithm for computing the theoretical centering precision of the gripping devices	Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions, MTM 2016 and the 23rd International Conference on Robotics, Robotics 2016, Mechanisms and Machine Science, 44, p.15-21	2017	DOI: 10.1007/978-3- 319-44087-3_2					0.120	
2	Mesaros-Anghel V., Lovasz E.-C., Gruescu C.M., Moldovan C.E.	Optimal design of a grasping device through simplified pose synthesis of a four-bar linkage	Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions, MTM 2016 and the 23rd International Conference on Robotics, Robotics 2016, Mechanisms and Machine Science, 46, p. 3-13	2017	DOI: 10.1007/978-3- 319-45450-4_1					0.150	
3	Stoian A.-M., Maniu I., Lovasz E.-C., Gruescu C.M.	Design solutions to simplify the calibration of a robotic flexible manufacturing system	Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions, MTM 2016 and the 23rd International Conference on Robotics, Robotics 2016, Mechanisms and Machine Science, 46, p. 229-238	2017	DOI: 10.1007/978-3- 319-45450-4_23					0.150	
4	E. C. Lovasz , D. T. Mărgineanu, V. Ciupe, I. Maniu, C.M. Gruescu, E. S. Zăbavă, S. D. Stan	Design and control solutions for haptic elbow exoskeleton module used in space telerobotics	Mechanism and Machine Theory Volume 107, January 2017, Pages 384–398; ISSN: 0094-114X, http://dx.doi.org/10.1016/j.mechmachtheory.2016.08.004	2017	000390971900027	2.796				1.284	
5	Popa S., Padure M., Gruescu C. M., Boran S.	New Salicylic Acid- Based Azo Dyes Synthesis, Characterization and Colour Properties	REVISTA DE CHIMIE, 12/2015, vol. 66(12), p. 2021- 2027, ISSN: 0034-7752	2015	000368437100022	1.412				1.209	
6	E.-C. Lovasz, K.-H. Modler, R. Neumann, C. M. Gruescu, D. Perju, V.Ciupe, I. Maniu	Novel Design Solutions for Fishing Reel Mechanisms	CHINESE JOURNAL OF MECHANICAL ENGINEERING, vol. 28(4), p. 726-736, ISSN: 1000- 9345, DOI: 10.3901/CJME.2015.0420.063	2015	000357845700008	0.814				0.435	
7	Lovasz E.-C., Grigorescu S.M., Margineanu D.T., Gruescu C.M., Pop C., Ciupe V., Maniu I.	Geared linkages with linear actuation used as kinematic chains of a planar parallel manipulator	3rd International Conference on Mechanisms, Transmissions and Applications, MeTrApp 2015, 31, p. 21-31Mechanisms and Machine Science	2015	DOI: 10.1007/978-3- 319-17067-1_3					0.086	
8	Margineanu, D.; Lovasz, E. -C.; Modler, K. -H.; Gruescu C. M.	Steering and Non- steering Crawling Tetrahedral Micro- mechanisms	3rd Conference on Microactuators and Micromechanisms (MAMM), OCT 02-04, 2014, Mechanisms and Machine Science Volume: 30 Pages: 9-22,	2015	000368494300002					0.150	
9	Gruescu, C. M.; Garaiman, A.; Lovasz, E. C.	Modeling of human spinal column and simulation of spinal deformities	MECHANIKA Issue: 3 Pages: 214-219 Published: 2015, DOI: http://dx.doi.org/10.5755/j01.mech.21.3.8505	2015	000360140500008	0.529	1.458				

10	E.-C. Lovasz , D. Perju, K.-H. Modler, C. M. Gruescu, D. Mărgineanu, C. E. Moldovan, C. Pop	Path Generating Belt Mechanisms as Kinematic Chains for Mechatronic Applications	5th European Conference on Mechanism Science (EUCOMES) Guimaraes, PORTUGAL, NEW TRENDS IN MECHANISM AND MACHINE SCIENCE: FROM FUNDAMENTALS TO INDUSTRIAL APPLICATIONS, Book Series: Mechanisms and Machine Science Volume: 24 Pages: 111-119, DOI 10.1007/978-3-319-09411-3_12	2015	000357867900012						0.086	
11	C. M. Gruescu, E.-C. Lovasz, V. Ciupe	Optics Optimization in Laser Spot Radius Minimization	2014 International Conference on Production Research – Regional Conference Africa, Europe and the Middle East, ISBN: 978-973-662-978-5, 3rd International Conference on Quality and Innovation in Engineering and Management	2014	000346410700045		0.400					
12	E.-C. Lovasz, C. M. Gruescu, A. Garaiman, I. Carabas, R. Bodea	Scanning System Integrated Within Biometric Measurements	New Trends in Medical and Service Robots. Theory and Integrated Applications. MeSRob 2013, Book Series: Mechanisms and Machine Science, vol. 16, p. 131-144, ISBN: 978-3-319-01591-0; 978-3-319-01592-7, ISSN: 2211-0984, doi: 10.1007/978-3-319-01592-7_10	2014	000344057400011						0.120	
13	E.-C. Lovasz, D. Perju, K.-H. Modler, A.-E. Lovasz, I. Maniu, Gruescu C.	Demonstrative Digital Mechanisms Library	Mechanisms, Mechanical Transmissions and Robotics, Applied Mechanics and Materials, vol. 162 (2012), Trans Tech Publications, Switzerland, ISSN: 1662-7482, ISSN: 1660-9336, doi:10.4028/www.scientific.net/AMM.162.37	2012	000309782300005			0.200				
14	V. Ciupe, E.-C. Lovasz, Gruescu C.	High Quality Document Digitization Equipment	Mechanisms, Mechanical Transmissions and Robotics, Applied Mechanics and Materials, vol. 162 (2012), p. 589-596, Trans Tech Publications, Switzerland, ISBN - 13: 978-3-0303785-395-5,	2012	doi:10.4028/www.scientific.net /AMM.162.589		0.400					
15	Gruescu C., Ionescu C., Nicoara I., Lovasz A.	Experimental Optimization of Process Parameters in Laser Cutting of Polycarbonate Gears	Mechanika Journal, vol. 2, p. 233-238, ISSN: 1392-1207 http://dx.doi.org/10.5755/j01.mech.18.2.1561	2012	000303788600018	0.529		1.094				
16	Popa M. Lupea A.X. Popa S. Gruescu C.	Colour of Bilberry (Vaccinium Myrtillus Fruits) Extracts	International Journal of Food Properties, vol. 13(4), p. 7771-777, doi: 10.1080/10942910902894898, ISSN 1094-2912	2010	000280635700011	1.845					1.534	
17	Gruescu C., Dumache C., Nicoara I., Tonea E.	Experimental Study Aiming to Establish Specific Characteristics of Stationary Optical Processes	The 4th edition of the International Conference "Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies", 7697-48, 2008, Constanta, Romania Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, Proc. of SPIE, Vol. 7297, 72971C © 2009 SPIE CCC code: 0277-786X/09 doi: 10.1117/12.823659	2009	000291642900048			0.300				
18	Gruescu C., Nicoara I., Popov D., Bodea R., Hora H.	Optical Glass Compatibility For the Design of Achromatic Systems	Science of Sintering, ISSN 0350-820X, vol. 40, p.131-140 doi: 10.2298/SOS0802131G UDK 666.3-128:621.315.612	2008	000259244100004	0.667		1.040				
							P1.1	P1.2	P1.3	P1.4	P1	
							2.258	2.634	0.000	5.323	10.215	

CDI A2.2 Articole si publicatii stiintifice BDI neincluse la A 2.1

Nr crt	Autori	Titlu	An	Conferinta/volum	Volum/pag.	DOI	N3.1	N3.2
1	Vutan, A.-M., Gruescu, C.M., Ciupe, V., Margineanu, D., Lovasz, E.-C.	Effectiveness of physical exercises in the treatment of scoliosis - Mathematical approach	2019	SYROM 2018, Mechanisms and Machine Science	65, pp. 25-34	10.1007/978-3-030-00329-6_4	1	
2	Lovasz, E.-C., Gruescu, C.M., Vutan, A.M., Margineanu, D.T.	Dynamic study of an adaptive intelligent cervical brace model under actuation	2019	Mechanisms and Machine Science	66, pp. 327-334.	0.1007/978-3-030-00365-4_39		1
3	Lovasz, E.-C., Ceccarelli, M., Gruescu, C.M., Carbone, G., Cărăbaș, I.	A comparative analysis of teaching MMS at Politehnica University of Timișoara and University of Cassino and South Latium	2019	Mechanisms and Machine Science	64, pp. 91-102	10.1007/978-3-030-00108-7_11		1
4	Margineanu, D., Lovasz, E.-C., Gruescu, C.M., Ciupe, V., Tatar, S.	5 DoF haptic exoskeleton for space telerobotics – Shoulder module	2018	MeTrApp 2017, Mechanisms and Machine Science	52, p. 111-120	10.1007/978-3-319-60702-3_12		1
5	Vutan A.M., Ciupe V., Gruescu C.M., Lovasz E.-C.	Experimental method for dynamic evaluation of spinal column deformation	2018	SYROM 2017, Mechanisms and Machine Science	57, p. 137-146	10.1007/978-3-319-79111-1_13	1	
6	Ciupe, V., Lovasz, E.-C., Gruescu, C.-M., Margineanu, D., Maniu, I.	Testing the haptic exoskeleton actuators in a virtual environment	2015	2015 IFToMM World Congress Proceedings, IFToMM 2015		10.6567/IFToMM.14TH.WC.PS13.015		1
7	Mărgineanu, D.T., Gruescu, C., Lovasz, E.Ch., Modler, K.H., Ciupe, V.	Tetrahedral mechanism crawling on a slope	2015	2015 IFToMM World Congress Proceedings, IFToMM 2015		10.6567/IFToMM.14TH.WC.OS11.01		1
8	Lovasz, E.-C., Pop, C., Grigorescu, S.M., Gruescu, C.M., Dan Mărgineanu, T., Maniu, I.	Kinematics of the planar parallel manipulator using geared linkages with linear actuation as kinematic chains 3-R(RPRGR)RR	2015	2015 IFToMM World Congress Proceedings, IFToMM 2015		10.6567/IFToMM.14TH.WC.OS8.026		1
9	Lovasz E.-C., Mateas M., Gruescu C.-M., Margineanu E. Z., Carabas I., Stan S.-D.	Development of a Quality Indicator System for Haptic Exoskeleton Modules	2014	Applied Mechanics and Materials, ISSN: 1662-7482	p. 648-653	10.4028/www.scientific.net/AMM.648-653		1
10	Ciupe V., Lovasz E.C., Reessing M., Henkel V., Gruescu C.M., Zabava E.S.	Interactive animation production by means of advanced image processing	2014	2nd Conference on Mechanisms, Transmissions and Applications, MeTrApp 2013, Mechanisms and Machine Science	17, p. 329-337	10.1007/978-3-319-01845-4_33		1
11	Lovasz E.C., Perju D., Modler K.H., Modler N., Gruescu C.M., Maniu I., Comsa A.	On the structural analysis of the mechanisms with elastic connections	2014	2nd Conference on Mechanisms, Transmissions and Applications, MeTrApp 2013, Mechanisms and Machine Science	17, p. 59-67	10.1007/978-3-319-01845-4_6		1
12	Lovasz E.-C., Ciupe V., Modler K.-H., Gruescu C.M., Hanke U., Maniu I., Margineanu D.	Experimental design and control approach of an active knee prosthesis with geared linkage	2014	2nd Conference on Mechanisms, Transmissions and Applications, MeTrApp 2013, Mechanisms and Machine Science	17, p. 149-156	10.1007/978-94-007-7485-8_19		1

13	Lovasz E.C., Perju D., Modler K.H., Gruescu C.M., Maniu I., Zabava E.S.	Numerical iterative method for computing the base circle radius of cam mechanisms with translating flat-face follower	2013	4th European Conference on Mechanism Science, EUCOMES 2012, Mechanisms and Machine Science	7, p. 237-244	10.1007/978-94-007-4902-3_25		1
14	Gruescu C.M.	Motion laws of a varifocal objective working with a 1/2" CCD camera	2012	MeTrApp 2011, Mechanisms and Machine Science 3	p. 133-140	10.1007/978-94-007-2727-4_12	1	
15	Gruescu C.M., Nicoara I., Busa E.	Loading devices for closed-loop gear test stands	2012	MeTrApp 2011, Mechanisms and Machine Science 3	p. 281-289	10.1007/978-94-007-2727-4_26	1	
16	Lovasz, E.-C., Perju, D., Gruescu, C.M., Modler, K.-H., CărăbasB, I., Zăbavă, E.S.	Numerical method for determination of base circle radius of cam mechanisms with oscillating flat-face follower	2012	TMM Liberec 2012, Mechanisms and Machine Science	8, pp. 143-149	10.1007/978-94-007-5125-5_19		1
17	Lovasz E.-C., Gruescu C.M., Ciupe V., Maniu I., Dehelean N.	Advanced digitization techniques in retrieval of mechanism and machine science resources	2012	TMM Liberec 2012, Mechanisms and Machine Science	8, p. 35-41	10.1007/978-94-007-5125-5_5		1
18	Lovasz E.-C., Perju D., Corves B., Gruescu C.M., Lovasz A., Ciupe V.	Multilingual illustrated micro-thesaurus in mechanisms science	2012	MeTrApp 2011, Mechanisms and Machine Science 3	p. 47-58	10.1007/978-94-007-2727-4_4		1
19	Mateas M., Moldovan C., Gruescu CM., Kis A., Lovasz E.-C.	Novel rehabilitation system for the lower limb	2018	ACME 2018, The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conference Series: Materials Science and Engineering	444(5), art. 052021	10.1088/1757-899X/444/5/052021		
20	Vutan AM., Gruescu CM., Lovasz E.-C., Ciupe V.	Discussion on Cobb Angle variation during progressive lateral flexion of the trunk	2018	ACME 2018, The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conference Series: Materials Science and Engineering	444(5), art. 052020	10.1088/1757-899X/444/5/052020	1	
							N3.1	N3.2
							5	15

CDI A2.3 Brevete de inventii indexate P2.1 = 0; P2.2 = 0

CDI A2.4 Produse, tehnologii, platforme si servicii inovative N4.1 = 0; N4.2 = 0

CDI A2.5 Monografiile/carti de specialitate, format tiparit/electronic (min. 100 pag)

Nr. crt.	Autor(i)	Titlu	Format	Editura/adres web	ISBN	Anul	Nr. Pag.	Obs.
1	Gruescu C.	Elemente de optică tehnică și aparate optice	tiparit	Orizonturi Universitare	973-8109-19-1	2001	306/306	N4.3
2	Nicoara I., Gruescu C., Strauti-Negru G.	Metodica predării specialității	tiparit	Politehnica	8247-99-3	2002	105/208	N4.4
3	Gruescu C., Nicoara I.	Aparate optice. Analiza și sinteza subansamblurilor optice lenticulare	tiparit	Politehnica	973-625-158-6	2004	125/271	N4.3
4	Bodea R., Gruescu C.	Sinteza subansamblurilor optice corectate la aberații cromatice și spectru secundar	tiparit	Politehnica	978-973-625-461-1	2007	75/142	N4.3
5	Gruescu C., Nicoară I., Costache M., Ionescu C.	Aplicații ale metodei Ray Tracing în optica imaging și non-imaging	tiparit	Politehnica	978-972-625-542-7	2008	200/271	N.4.3
6	Negru-Srăuți G., Gruescu C.	Calitatea și tehnologia de execuție a sistemelor optice. Influență și corelație	tiparit	EUROBIT	978-973-620-511-8	2009	75/154	N4.4
							N4.3	3
							N4.4	3

Recunoasterea si impactul activitatii - RIA (A3)

RIA A3.1 Atragerea de resurse financiare prin granturi/ proiecte / contracte terti

Nr.crt.	Denumire	Nr. Grant	Program	Anul	Suma de finantare [mii Euro]	S1 [mii euro]	S2 [mii euro]
1	think MOTION, Digital Mechanism and Gear Library goes Europeana	FP7-250485/2010	FP7	2011	94.433		11.804
2	think MOTION, Digital Mechanism and Gear Library goes Europeana	FP7-250485/2010	FP7	2012	37.885		3.789
3	think MOTION, Digital Mechanism and Gear Library goes Europeana	FP7-250485/2010	FP7	2013	44.763		4.476
4	Dezvoltarea și implementarea unor sisteme performante de investigare și recuperare a deformațiilor de coloană vertebrală la populația de vârstă școlară și categorii profesionale cu activități sedentare	88/2006	CEEX	2007	26.747		2.675
5	Dezvoltarea și implementarea unor sisteme performante de investigare și recuperare a deformațiilor de coloană vertebrală la populația de vârstă școlară și categorii profesionale cu activități sedentare	88/2006	CEEX	2008	99.994		9.999
6	Dezvoltarea și implementarea unor sisteme performante de investigare și recuperare a deformațiilor de coloană vertebrală la populația de vârstă școlară și categorii profesionale cu activități sedentare	88/2006	CEEX	2009	148.144		14.814
7	New Haptic Arm Exoskeletons for Robotics and Automation in Space	13/2012	PNCII	2012	4.488		0.748
8	New Haptic Arm Exoskeletons for Robotics and Automation in Space	13/2012	PNCII	2013	13.578		2.263
9	New Haptic Arm Exoskeletons for Robotics and Automation in Space	13/2012	PNCII	2014	13.500		2.250
10	New Haptic Arm Exoskeletons for Robotics and Automation in Space	13/2012	PNCII	2015	6.985		1.164
11	Ergoingineria locului de munca. Aplicatii in medicina dentara, ERGIDENT	91-0222 /2007	CNMP	2007	85.473		12.210
12	Ergoingineria locului de munca. Aplicatii in medicina dentara, ERGIDENT	91-0222 /2007	CNMP	2008	29.028		4.147
13	Ergoingineria locului de munca. Aplicatii in medicina dentara, ERGIDENT	91-0222 /2007	CNMP	2009	73.097		10.442
14	Ergoingineria locului de munca. Aplicatii in medicina dentara, ERGIDENT	91-0222 /2007	CNMP	2010	77.136		12.856
15	Cercetari privind cresterea eficientei celulelor fotovoltaice nanostructurate, NANO PV	247/3/2006	CEEX	2007	29.257		1.950
16	Cercetari privind cresterea eficientei celulelor fotovoltaice nanostructurate, NANO PV	247/3/2006	CEEX	2008	30.541		2.036

	S1	S2
Total		97.62
[mii euro]		

RIA A3.2 Prezentarea/diseminarea rezultatelor: prezenta la manifestari stiintifice in calitate de autor/co-autor de lucrari, profesor invitat

Nr.crt.	Conferinta/congress
1	MeTrApp Timisoara, RO, 2011
2	MTM & ROBOTICS Clermont-Ferrand, FR, 2012
3	MMT Liberec, Czech Republic, 2012
4	MAMM Timisoara RO, 2014
5	EUCOMES, Guimaraes, Portugal, 2014
6	ICPR Cluj-Napoca RO, 2014
7	The 2nd IFToMM Asian Conference on Mechanism and Machine Science, Tokyo, JP, 2012
8	2013 E-Health and Bioengineering Conference (EHB), Iasi, RO, 2013
9	The 3rd IFToMM Asian Conference on Mechanism and Machine Science, Tianjin, China, 2014
10	The 14th IFToMM World Congress, Taipei, TW, 2015
11	MTM & ROBOTICS Aachen, Germany, 2016
12	ISEMMS 2017 Madrid, Spain, 2017
13	MESROB 2018 Cassino, It, 2018
14	SYROM 2018 Iasi, RO, 2018
15	PRASIC 2018, Brasov, RO, 2018

N5**15**

RIA A3.3 Citari in publicatii BDI

Nr.crt.	Autori lucrare citata	Titlu lucrare citata	Date publicatie lucrare citata	Publicatie WOS in care apare citarea	FI	Date lucrare care citeaza	C
1	Gruescu C., Nicoara I., Popov D., Bodea R., Hora H.	Optical Glass Compatibility for the Design of Achromatic Systems	Science of Sintering, ISSN 0350-820X, vol. 40, p.131-140 doi: 10.2298/SOS0802131G UDK 666.3-128:621.315.612	OPTICS EXPRESS Volume: 20 Issue: 13 Pages: 13592- 13611 Published: JUN 18 2012	3.436	Method of glass selection for color correction in optical system design By: Carneiro de Albuquerque, Braulio Fonseca; Sasian, Jose; de Sousa, Fabiano Luis; et al.	4.436
				2013 Journal of Applied Optics 34 (4), pp. 570-574	0	Collimator design for novel spectral tunable calibration source system By: Zhai, W.-C., Xu, J., Ding, L., Zheng, X.-B.	1
2	Popa M. Lupea A.X. Popa S. Gruescu C.	Colour of Bilberry (Vaccinium My rtillus Fruits) Extracts	International Journal of Food Properties, vol. 13(4), p. 7771-777, doi: 10.1080/10942910902894898, ISSN 1094- 2912	REVISTA DE CHIMIE Volume: 67 Issue: 7 Pages: 1290- 1293 Published: JUL 2016	1.232	Influence of Storage Conditions Upon CIELAB and Thermal Properties of Sesame Food Oil By: Popa, S.; Boran, S.; Davidescu, C.	2.232
				REVISTA DE CHIMIE Volume: 67 Issue: 5 Pages: 858-861 Published: MAY 2016	1.232	Walnut Food Oil Under UV Radiation - influence Upon CIELAB and Thermal Properties of Antocyanin Addition By: Popa, S.; Boran, S.; Davidescu, C.	2.232
				Food Chemistry, Volume 232, 1 October 2017, Pages 114-123	4.498	Evaluation of processing effects on anthocyanin content and colour modifications of blueberry (Vaccinium spp.) extracts: Comparison between HPLC-DAD and CIELAB analyses By: Cesa, S. Carradori, S., Bellagamba, G., Locatelli, M., Casadei, M.A., Masci, A., Paolicelli, P.	5.498
				Revista de chimie, 68 (6), 2017, pp. 1499-1503	1.232	CIELAB and thermal properties of sesame food oil under antocyanin and UV influence, By: Popa, S., Boran, S.	2.232
				2018 LWT-Food Science and Technology, 97, 668-675	2.711	Incorporation of natural colorants obtained from edible flowers in yogurts By: Pires Tania et al.	3.711
				REVISTA DE CHIMIE Volume: 67 Issue: 7 Pages: 1290- 1293 Published: JUL 2016	1.232	Influence of Storage Conditions Upon CIELAB and Thermal Properties of Sesame Food Oil By: Popa, S.; Boran, S.; Davidescu, C.	2.232

				2016 Ukrainian Food Journal, (4), 644-652	0.453	Impact of treatment with oxidative bleaching agents on walnut shell chromatic parametrs By Boaghi Eugenia	1.453
3	Popa S., Padure M., Gruescu C. M., Boran S.	New Salicilic Acid-Based Azo Dyes Synthesis, Characterization and Colour Properties	REVISTA DE CHIMIE, 12/2015, vol. 66(12), p. 2021-2027, ISSN: 0034-7752	REVISTA DE CHIMIE Volume: 67 Issue: 7 Pages: 1290-1293 Published: JUL 2016	1.232	Influence of Storage Conditions Upon CIELAB and Thermal Properties of Sesame Food Oil By: Popa, S.; Boran, S.; Davidescu, C.	2.232
				REVISTA DE CHIMIE Volume: 67 Issue: 5 Pages: 858-861 Published: MAY 2016	1.232	Walnut Food Oil Under UV Radiation - influence Upon CIELAB and Thermal Properties of Antocyanin Addition By: Popa, S.; Boran, S.; Davidescu, C.	2.232
				Revista de chimie, 68 (6), 2017, pp. 1499-1503	1.232	CIELAB and thermal properties of sesame food oil under antocyanin and UV influence, By: Popa, S., Boran, S.	2.232
4	E-C. Lovasz, K.-H. Modler, R. Neumann, C. M. Gruescu, D. Perju, V.Ciupe, I. Maniu	Novel Design Solutions for Fishing Reel Mechanisms	CHINESE JOURNAL OF MECHANICAL ENGINEERING, vol. 28(4), p. 726-736, ISSN: 1000-9345, DOI: 10.3901/CJME.2015.0420.063	(2016) INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS AND MANUFACTURING APPLICATIONS (ICONAMMA-2016), IOP Conference Series- Materials Science and Engineering Volume: 149 Article Number: UNSP 012221	0	Scotch-Yoke mechanism for a syringe pump - A case study By: Kumar, M. Pramoth; Akash, K.; Venkatesan, M.	1
5	Lovasz E.-C., Grigorescu S.M., Margineanu D.T., Gruescu C.M., Pop C., Ciupe V., Maniu I.	Geared linkages with linear actuation used as kinematic chains of a planar parallel manipulator	3rd International Conference on Mechanisms, Transmissions and Applications, MeTrApp 2015, Mechanisms and Machine Science, (2015) Mechanisms and Machine Science, 31 , pp. 21-31.	2017 Mechanisms and Machine Science, 46, pp. 77-85	0	Dimensional synthesis of planar parallel manipulator using geared linkages with linear actuation as kinematic chains, By: Grigorescu, S.M., Lovasz, E.-C., Mărgineanu, D.T., Pop, C., Pop, F.	1
				2017 Mechanisms and Machine Science, 46, pp. 99-105	0	Structural synthesis of planar geared linkage mechanisms as multibody systems, By: Visa, I., Neagoe, M., Moldovan, M.D.	1
				2016 IOP Conference Series: Materials Science and Engineering, 147(1), 012073	0	The 033(6R) structural group existence condition in real field, By: Duca, C., Buium, F.	1
				2016 IOP Conference Series: Materials Science and Engineering, 147(1), 012072	0	The singularities, forces transmission index and mechanism selfblocking, By: Duca, C., Buium, F.	1

				2018 Mechanisms and Machine Science 57, pp. 455-463	0	An IKP-DKP approach emphasizing singularities of 9R (3-RRR) mechanisms By: Buium, F. Leohchi, D. Duca, C.D.	1
				2016 Archives of Civil and Mechanical Engineering, 16 (3), pp. 256-268	1.922	General method of structural synthesis of parallel mechanisms, By: Bałchanowski, J.	2.922
				2016 7th International Conference on Advanced Concepts in Mechanical Engineering. IOP Conference Series Materials Science and Engineering vol. 147 Article number UNSP 012085	0	Graphical shapes of the 2nd type singularities of a 3-RRR planar mechanism, By: Buium, F., Duca, C., Doroftei, I., Leohchi, D	1
6	E. C. Lovasz , D. T. Mărgineanu, V. Ciupe, I. Maniu, C.M. Gruescu, E. S. Zăbavă, S. D. Stan	Design and control solutions for haptic elbow exoskeleton module used in space telerobotics	Mechanism and Machine Theory Volume 107, January 2017, Pages 384–398; ISSN: 0094-114X, http://dx.doi.org/10.1016/j.mechmachtheory.2016.08.004	2017 Mechanism and Machine Theory, 118, pp. 283-299	2.853	A cable-pulley system modeling based position compensation control for a laparoscope surgical robot, By: Xue Renfeng, Ren Bingyin, Yan Zhiyuan et al.	3.853
				2018 Mechanism and Machine Theory, 120, 213-224	2.853	Hysteresis modeling and trajectory tracking control of the pneumatic muscle actuator using modified Prandtl-Ishlinski model By: Xie Shenglong et al.	3.853
				2018 Journal of Biomimetics Biomaterials and Biomedical Engineering, 36, 34-44	0	Static Decoupling Performance Analysis and Design of Bionic Elbow Joint By: Cui Bingyan et al.	1
				2018 Applied Bionics and Biomechanics, Art. No.: 4613230	0	Kinematic Decoupling Analysis and Design of Bionic Elbow Joint By: Cui Bingyan et al.	1
				2017 IEEE World Haptics Conference, 466-471	0	Supportive Training System for Sports Skill Acquisition Based Electrical Stimulation Bt: Tatsuno Sho et al.	1
7	Lovasz E.C., Perju D., Modler K.H., Modler N., Gruescu C.M., Maniu I., Comsa A.	On the structural analysis of the mechanisms with elastic connections	(2014) Mechanisms and Machine Science, 17 , pp. 59-67.	2017 Mechanisms and Machine Science, 46, pp. 473-481	0	Kinematic and dynamic analysis of a 4DOF parallel robot with flexible links, By: Cretescu, N., Neagoe, M., Saulescu, R.	1

8	Lovasz E.-C., Ciupe V., Modler K.-H., Gruescu C.M., Hanke U., Maniu I., Margineanu D.	Experimental design and control approach of an active knee prosthesis with geared linkage	(2014) Mechanisms and Machine Science, 17 , pp. 149-156.	2017 Mechanisms and Machine Science 46, pp. 99-106	0	Structural synthesis of planar geared linkage mechanisms as multibody systems, By: Visa, I., Neagoie, M., Moldovan, M.D.	1
9	Lovasz E.-C., Grigorescu S. M., Margineanu D. T., Pop C., Gruescu C. M., Maniu I.	Kinematics of the planar parallel Manipulator using Geared Linkages with linear Actuation as kinematic Chains 3-R(RPRGR)RR	The 14th IFToMM World Congress, Taipei, Taiwan, October 25-30, 2015 DOI Number: 10.6567/IFToMM.14TH.WC.OS8.026	2016 IOP Conference Series: Materials Science and Engineering, 147 (1), 012073	0	The 033(6R) structural group existence condition in real field, By: Duca, C., Buium, F.	1
				2018 Mechanisms and Machine Science 57, pp. 455-463 DOI: 10.5772/61677	0	An IKP-DKP approach emphasizing singularities of 9R (3-RRR) mechanisms By: Buium, F. Leohchi, D. Duca, C.D.	1
				2016 IOP Conference Series: Materials Science and Engineering, 147 (1), 012085	0	Graphical shapes of the 2nd type singularities of a 3-RRR planar mechanism, By: Buium, F., Duca, C., Doroftei, I., Leohchi, D	1
				2017 Mechanisms and Machine Science, 46, pp. 77-85	0	Dimensional synthesis of planar parallel manipulator using geared linkages with linear actuation as kinematic chains, By: Grigorescu, S.M., Lovasz, E.-C., Mărgineanu, D.T., Pop, C., Pop, F.	1
				2016 IOP Conference Series: Materials Science and Engineering, 147 (1), 012072	0	The singularities, forces transmission index and mechanism selfblocking, By: Duca, C., Buium, F.	1
10	V. Ciupe, E-C. Lovasz, Gruescu C.	High Quality Document Digitization Equipment	Mechanisms, Mechanical Transmissions and Robotics, Applied Mechanics and Materials, vol. 162 (2012), p. 589-596, Trans Tech Publications, Switzerland, ISBN -13: 978-3-0303785-395-5, doi:10.4028/www.scientific.net/AMM.162.589	(2018)2nd IEEE International Workshop on Arabic and Derived Script Analysis and Recognition, p. 124-128	0	Data collection and image processing for ancient arabic manuscripts By: Al Maadeed et al.	1

11	Mesaros-Anghel V., Lovasz E.-C., Gruescu C.M., Moldovan C.E.	Optimal design of a grasping device through simplified pose synthesis of a four-bar linkage	Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions, MTM 2016 and the 23rd International Conference on Robotics, Robotics 2016, Mechanisms and Machine Science, 46, p. 3-13	2017 INMATEH -Agricultural Engineering, 52(2), p. 137-142	0	Synthesis of self-centring grippers By: Moise V. et al.	1
12	E.-C. Lovasz , D. Perju, K.-H. Modler, C. M. Gruescu, D. Mărgineanu, C. E. Moldovan, C. Pop	Path Generating Belt Mechanisms as Kinematic Chains for Mechatronic Applications	5th European Conference on Mechanism Science (EUCOMES) Guimaraes, PORTUGAL, NEW TRENDS IN MECHANISM AND MACHINE SCIENCE: FROM FUNDAMENTALS TO INDUSTRIAL APPLICATIONS, Book Series: Mechanisms and Machine Science Volume: 24 Pages: 111-119, DOI 10.1007/978-3-319-09411-3_12	2017 Huanan Ligong Daxue Xuebao/Journal of South China University of Technology, 45(10), 137-143	0	Synthesis of Belt Mechanism for Rigid-Body Guidance Based on Similarity Transformation By: Liu, J.-S. Lin, S. Wang, H.-C. Zhang, Y.	1