UNIVERSITATEA DIN ORADEA
FACULTATEA: INGINERIE MANAGERIALĂ ŞI TEHNOLOGICĂ
DEPARTAMENTUL: MECATRONICĂ

Fisa de verificare a indeplinirii standardelor minimale CNATDCU

Nume cadru didactic/ cercetator: Prof.dr.ing. Tarca Radu
Grad didactic: Prof. univ. dr.

Domeniul fundamental (DF): Ştiinţe inginereşti
Ramura de stiinta (RS): Inginerie mecanică, mecatronică, inginerie industrială şi management
Cod RS: 11

* Denumirile DF, RS precum si valorile codurilor corespunzatoare se iau din documentul CNFIS „Anexa1-Tabel_institutional-normare_cercetare-IC2015.xlsx" - sheet-ul 2

Fisa de verificare a standardelor minimale pentru gradul de profesor universitar stabilite prin OM 6560 / 2012

Nr.crt.	Criteriu	Indicatori		Punctaj minimal	Punctaj realizat
1	Criteriul A1	Activitatea didactică / profesională (A1)		130	618,2863636
			Total punctaj A1	**130**	**618,2863636**
2	Criteriul A2	Activitatea de cercetare (A2)		300	2132,555439
			Total punctaj A2	**300**	**2132,555439**
3	Criteriul A3	Recunoaşterea impactului activităţii (A3)		100	1225,333333
			Total punctaj A3	**100**	**1225,333333**
				Necesar	**Realizat**
			Total general	**530**	**3976,175136**

Data:
20.01.2021

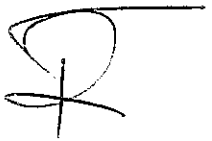
Director departament,
Conf.Dr.Ing. Sorin PATER

Candidat,
Prof.Dr.Ing. Radu TARCA

Indice realizare
7,50

Activitatea didacica si profesionala (A1)

Nr.crt	Tipul activităților	Categorii si restricții	Subcategorii / Indicatori	Descriere	Nr. de pagini sau alti indicatori	Nr. autori sau nr. editori	Punctaj realizat
1	1.1.Carti si capitole în carti de specialitate	1.1.1.Carti/ capitole ca autor	1111.internationale (Formula: nr. pagini/(5*nr. Autori)	a) ADVANCED MECHATRONICS Ţarcă Radu 2012 Publisher: Dr. habil Edit Szucs phD, Dean of Faculty of Engineering, University of Debrecen, Debrecen, Hungary ISBN 978-963-473-508-3	480	1	96
				b) The Functional Model of a Robot System, Chapter 48 in DAAAM International Scientific Book 2006 DOI: 10.2507/daaam.scibook.2006.48 Ţarcă, R.; Ţarcă, I., Tripe Vidican, A., Tocuţ, P.D. & Tripe Vidican, C. 2006 B. Katalinic (Ed.), Published by DAAAM International, Vienna, Austria, ISBN 3-901509-47-X	16	4	0,8
					0	0	
			1112.nationale (Ed. Recunoscute CNCSIS); Profesor minim 2 prim autor; Conferentiar minim 1 prim autor; (Formula: nr. pagini/(10*nr. autori)	Bazele cinematicii robotilor. Ţarcă Radu Cătălin, Avram Florin, 2020, Editura Universităţii din Oradea ISBN	172	2	8,6
				Robotizarea operaţiilor de analiză metalografică. Vesselenyi Tiberiu, Moga Ioan, Ţarcă Radu Cătălin, Moldovan Ovidiu 2009 Editura Universităţii din Oradea ISBN 978-973-759-954-4	462	4	11,55
				INTRODUCERE IN ROBOTICA Ţarcă Radu 2003 Editura Universităţii din Oradea ISBN 973-613-456-3	355	1	35,5
				ROBOŢI DE SERVICII Kovacs Francisc, Radu Ţarcă, Claudiu Creţ, 2001 Editura Universităţii din Oradea, Oradea ISBN 973-613-038-8	152	3	5,066666667
				Kovács Francisc, Radu Ţarcă, Florin Blaga, Aron Tripe, SISTEME DE FABRICAŢIE FLEXIBILĂ, Ed. Univ. din Oradea, 1999, ISBN 973-9416-43-8	284	4	7,1
				Aron Tripe V., Radu Ţarcă, Calin Tripe V., ROBOTICA, Editura Universităţii din Oradea, 2003, ISBN 973-8219-95-7	263	3	8,766666667
				Radu Ţarcă, CONDUCEREA ROBOŢILOR UTILIZÂND SISTEME SERVOVIZUALE, 2001 Editura Universităţii din Oradea ISBN 973-613-038-X	237	1	23,7
				PLATFORMA NATIONALA DE MECATRONICA: FUNDAMENTUL PROGRAMELOR EUCATIONALE SI DE FORMARE CONTINUA IN SOCIETATEA CUNOASTERII, Coordonator: V. Maties Editura UT Press, 2016 ISBN 978-606-737-148-2	11	1	1,1



		1.1.2.Carti ca editor	1121.internationale (Formula: nr. pagini/(10*nr. editori)	book Ioan Constantin Ţarcă 2012 University of Debrecen, Hungary ISBN 978-963-473-510-6, 253 pag. d) Materials and machine parts for mechatronics. Laboratory handbook Ioan Constantin Ţarcă 2012 University of Debrecen, Hungary ISBN 978-963-473-511-3, 131 pag. e) Electrical actuators. Course book János Tóth 2012 University of Debrecen, Hungary ISBN 978-963-473-512-0, 301 pag. f) Electrical actuators. Laboratory handbook János Tóth 2012 University of Debrecen, Hungary ISBN 978-963-473-513-7, 112 pag. g) CAD for mechatronics. Course book Mircea Teodor Pop 2012 University of Debrecen, Hungary ISBN 978-963-473-514-4, 328 pag. h) CAD for mechatronics. Laboratory handbook Mircea Teodor Pop 2012 University of Debrecen, Hungary ISBN 978-963-473-515-1, 167 pag i) Modelling and simulation of mechatronics systems. Course book Florin Sandu Blaga 2012 University of Debrecen, Hungary ISBN 978-963-473-516-8, 286 pag j) Modelling and simulation of mechatronics systems. Laboratory handbook Florin Sandu Blaga 2012 University of Debrecen, Hungary ISBN 978-963-473-517-5, 78 pag k) PLC programming. Course book Géza Husi, Péter Szemes, István Bartha 2012 University of Debrecen, Hungary ISBN 978-963-473-518-2, 376 pag l) PLC programming. Laboratory handbook Géza Husi, Péter	4756	2	237,8
					0	0	
				etc.	0	0	
			1122.nationale (Formula: nr. pagini/(20*nr. editori)	a)	0	0	
				etc.	0	0	
2	1.2.Material didactic / Lucrari didactice	1.2.1. Manuale didactice /monografii - Minim 2 ca prim autor pentru Profesor / CS I; Minim 1 manual/monografie ca prim autor pentru Conferentiar / CS II;	(Formula: nr. pagini/(20*nr. autori)	a) SISTEME INFORMATIONALE BAZATE PE CLUSTERE PENTRU SISTEME LOGISTICE COLABORATIVE Radu Ţarcă, Tiberiu Vesselenyi, Ioan Ţarcă, Florin Blaga, ş.a. 2010 Editura Didactică şi Pedagogică R.A. Bucureşti ISBN 978-973-30-2829-1	360	11	1,636363636
				c) SISTEME DE FABRICAŢIE FLEXIBILĂ, Radu Ţarcă, Ed. Univ. din Oradea, 2005, Curs Invaţământ la distanta	180	1	9
					0	0	
		1.2.2. Indrumare de laborator/aplicatii; Profesor-minim 2 - prim autor; Conferentiar- minim 2 -	(Formula: nr. pagini/(25*nr. autori)	a) Advanced Mechatronics Laboratory Handbook (in limba engleza). Ţarcă R. Moldovan O 2012 Publisher: Dr. habil Edit Szucs phD, dean of Faculty of Engineering, University of Debrecen, Debrecen, Hungary, HU ISBN ISBN 978-963-473-509-0	125	2	2,5

		coautor:				

b) SISTEME SENZORIALE – Indrumator de laborator Moldovan O., Ţarcă R., Vesselenyi, T., Moga I. 2011 Ed. Univ. din Oradea	*76*	4	0,76
c) BAZELE ROBOTICII Indrumator de laborator Ţarcă R. Moldovan O 2010 Ed. Univ. din Oradea	*40*	2	0,8
d) SISTEME DE FABRICAŢIE FLEXIBILĂ – Indrumator de laborator Ţarcă R. Moldovan O 2010 Ed. Univ. din Oradea	*53*	2	1,06
e) SENZORI SI TRADUCTOARE – Îndrumator de proiect Ţarcă R., Buciuman B 2003 Ed. Univ. din Oradea	*101*	2	2,02
f) SISTEME DE FABRICAŢIE FLEXIBILĂ– Îndrumator de proiect Ţarcă R. 2003 Ed. Univ. din Oradea	*139*	1	5,56
g) SISTEME CIM – Îndrumar de laborator. Ţarcă R., Blaga Fl. 2003 Ed. Univ. din Oradea	*50*	2	1
h) Tripe V. A., Ţarcă R., Tocuţ P., DISPOZITIVE - MANUAL DE PROIECTARE, Ed. Univ. din Oradea, 2000	251	3	3,346666667
i) Tripe V. A., Ţarcă R., ROBOTICĂ, Ed. Univ. din Oradea, 1998	49	2	0,98
j) Tripe V. A., Ţarcă R., Tocuţ P., PROIECTAREA DISPOZITIVELOR, Ed. Univ. din Oradea, 1996,	159	3	2,12
k) Tripe V. A., Ţarcă R., Tocuţ P., ACŢIONĂRI ÎN MECANICĂ FINĂ, Ed. Univ. din Oradea, 1996,	114	3	1,52
etc.	0	0	

3	**1.3. Coordonare de programe de studii, organizare si coordonare programe de formare continua si proiecte educationale**	**Director/ Responsabil/ Prese**	**15**	a) Robotica	15		15
				b) Mecatronica	15		15
				c) Mecatronica aplicata	15		15
				d) Advanced Mechatronics Systems – master international cu Univ Debrecen - in limba engleza	15		15
					0		0
				etc.	0		0
4	**1.4 Dezvoltare de noi discipline**	**Titular**	**10**	a) Sisteme de fabricatie flexibila Licenţă Robotica, Mecatronica, Inginerie Economica in Domeniul Mecanic	10		10
				b) Sisteme de productie integrate cu calculatorul Licenţă Robotica	10		10
				c) Bazele roboticii (Robotica) Licenţă Robotica, Mecatronică	10		10
				d) Sisteme robotice in prestari de servicii Licenţă Roboţi industriali (Robotica)	10		10
				e) Advanced Mechatronics Master Advanced Mechatronic Systems	10		10
				f) Realitate virtuala Master Mecatronica Aplicata	10		10
				g) Sisteme de achizitie si procesarea imaginilor Master Mecatronica Aplicata	10		10
				h) Mecatronica Autovehiculelor, Licenta, Mecatronica	10		10
				i) Project: Mechanical Design of a Mechatronic System, Master, AMS	10		10
					0		0
				etc.	0		0
5	**1.5 Proiecte educationale (ERASMUS, Leonardo etc.)**	**Director/ Responsabil**	**(Formula: 10 * (ani desfasurare))**	a)	0		0
				b)	0		0
				etc.	0		0

Total punctaj A1 **618,2863636**

Data:

Director departament,
Conf.Dr.Ing. Sorin PĂTER

Candidat,
Prof.Dr.Ing. Radu TARCA

Activitatea de cercetare (A2)

Nr.crt	Tipul activitătilor	Categorii si restrictii	Subcategorii/ Indicatori unitari (kpi)	Descriere	Factor de impact sau alti indicatori	Nr. de autori (Reviste)	Punctaj realizat
1	2.1 Articole in Reviste cotate ISI Thomson Reuters si in volume indexate ISI Proceedings **	2.1.1 Reviste cotate ISI Thomson Reuters	(Formula: (30 + 10 * fact. impact)/ (nr.de autori) (Reviste))	Birouas, Flaviu Ionut; Tarca, Radu Catalin; Dzitac, Simona; Dzitac, Ioan, Preliminary Results in Testing of a Novel Asymmetric Underactuated Robotic Hand Exoskeleton for Motor Impairment Rehabilitation, SYMMETRY-BASEL, 12(9), art.no. 1470. DOI: 10.3390/sym12091470 (Q2 - Web of Science)	2,645	4	14,1125
				Noje, Dan; Dzitac, Ioan; Pop, Nicolae; Tarca, Radu, IoT Devices Signals Processing Based on Shepard Local Approximation Operators Defined in Riesz MV-Algebras, INFORMATICA, 31(1), pp.131-142, DOI: 10.15388/20-INFOR395, (Q1 - Web of Science)	3,312	4	15,78
				Endrowednes Kuantama, Ovidiu Gheorghe Moldovan, Ioan Ţarcă, Tiberiu Vesselényi, Radu Ţarcă, Analysis of quadcopter propeller vibration based on laser vibrometer, Journal of Low Frequency Noise, Vibration and Active Control, https://doi.org/10.1177/1461348419866292 (Q2 - Web of Science)	1,701	5	9,402
				Endrowednes Kuantama ,Radu Tarca ,Simona Dzitac ,Ioan Dzitac ,Tiberiu Vesselenyi, Ioan Tarca, The Design and Experimental Development of Air Scanning Using a Sniffer Quadcopter, Sensors 2019, 19(18), 3849; https://doi.org/10.3390/s19183849 (Q1 - Web of Science)	3,275	6	10,458
				Noje, D.; Tarca, R.; Dzitac, I.; Pop, N., IoT Devices Signals Processing based on Multi-dimensional Shepard Local Approximation Operators in Riesz MV-algebras INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, Volume: 14 Issue: 1 Pages: 56-62 (Web of Science)	2,093	4	12,7325
				Kuantama, E., Tarca, I., Dzitac, S., Dzitac, I.,Tarca, R ., Flight Stability Analysis of a Symmetrically-Structured Quadcopter Based on Thrust Data Logger Information SYMMETRY-BASEL, Volume: 10 Issue: 7, Article Number: 291, DOI: 10.3390/sym10070291, July 2018 . (Q2 - Web of Science)	2,645	5	11,29
				Kuantama, E., Vesselenyi, T., Dzitac, S., Tarca, R ., PID and Fuzzy-PID Control Model for Quadcopter Attitude with Disturbance Parameter International Journal of Computers, Communications & Control, Vol.12, No.4, pp. 519-532, AUG 2017 . (Web of Science)	2,093	4	12,7325
				Csokmai, L.,Tarca, R., Bungau C., Husi G., A Comprehensive Approach to Off-line Advanced Error Troubleshooting in Intelligent Manufacturing Systems International Journal of Computers, Communications & Control, Vol.10, No.1, pp. 30-37, February, 2015. (Web of Science)	2,093	4	12,7325
				Tarca, R; Caraban A., Bota S., Tarca, I., Dergez A., Cozma A. A New Fiber Optic Sensor For Ethanol Concentration Determination In Wine Chemical Abstract, vol. 65, no.10/2014, pp. 1238-1241. (Web of Science)	1,755	6	7,925
				Dzitac, I. Vesselenyi, T., Tarca, R. C. Identification of ERD using Fuzzy Inference Systems for Brain-Computer Interface INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, Vol. 6 Issue 3, Special Issue, Pag.403-417, 2011, (Web of Science)	2,093	3	16,97666667
				etc.	0	0	
		2.1.2 Reviste cotate in volume indexate ISI Proceedings	(Formula: 25/nr.de autori (Proceedings))	Birouas, F.I., Tarca, R.C.,Development and testing of a mixed feedback control system for robotic hand exoskeleton, 15th International Conference on Engineering of Modern Electric Systems (EMES), IEEE, pp. 17-20, 2019	25	3	8,333333333
				Kuantama, E., Tarca, R., Correction of Wind Effect on Quadcopter, 3rd International Conference on Sustainable Information Engineering and Technology (SIET) Location: Univ Brawijaya, Fac Comp Sci, Malang, INDONESIA Date: NOV 10-12, 2018, IEEE	25	2	12,5
				Birouas, F.I., Avram, F., Tarca, R.C., Anthropometric measurements for hand rehabilitation robotic devices using video processing, IOP Conference Series: Materials Science and Engineering 444(5), 052028, nov. 2018	25	2	12,5

Khuwaja, K.S.A., Chowdhry, B.S., Khuwaja, K.F., Mihalca, V.O., Țarcă, R.C., Virtual Reality Based Visualization and Training of a Quadcopter by using RC Remote Control Transmitter, IOP Conference Series: Materials Science and Engineering 444(5), 052008, nov. 2018.	25	5	5
Kuantama, E., Tarca, I., Tarca, R. Feedback Linearization LQR Control for Quadcopter Position Tracking, 2018 5th International Conference on Control, Decision and Information Technologies, CoDIT 2018, pp. 204-209.	25	3	8,333333333
Kuantama, E., Tarca, I., Tarca, R. Quadcopter Modeling in Virtual Reality for Dynamic Visualization, 2018 5th International Conference on Control, Decision and Information Technologies, CoDIT 2018, pp. 671-676.	25	3	8,333333333
Kuantama, E., Tarca, R., Quadcopter thrust optimization with ducted-propeller, MATEC Web of Conferences Vol. 126, October 2017, Article number 01002, Annual Session of Scientific Papers IMT ORADEA 2017; Baile Felix SPA; Romania; May 2017 DOI: 10.1051/matecconf/201712601002	25	2	12,5
Kuantama, E., Craciun, D., Tarca, I., Tarca, R., Quadcopter Propeller Design and Performance Analysis, Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions (MTM) / 23rd International Conference on Robotics (Robotics), Aachen, GERMANY, October, 2016 SPRINGER, Mechanisms and Machine Science, Vol. 46, pag.: 269-277, DOI: 10.1007/978-3-319-45450-4_27	25	4	6,25
MI PASC, RC TARCĂ, T/. Vesselenyi, F Popenţiu-Vlădecescu,B., Nagy REMOTE EDUCATIONAL SYSTEM USING VIRTUAL AND AUGMENTED REALITY Conference proceedings of» eLearning and Software for Education «(eLSE), 221-228	25	5	5
Lehel Csokmai, Ovidiu Moldovan, Ioan Tarca, Radu Tarca. Software Framework for Advanced Error Troubleshooting in Flexible Manufacturing System Applied Mechanics and Materials Vols. 397-400 (2013) pp 21-24 Trans Tech Publications, Switzerland doi:10.4028 /www.scientific.net/AMM.397-400.21	25	4	6,25
Tarca, R; Cornea, M., Tarca, I., Vesselenyi, T. Desiging A Networked Telerobotic System Using Internet 11th ASME Biennial Conference on Engineering Systems Design and Analysis, (ESDA 2012), Nantes, FRANCE, JUL 02-04, 2012 Sponsor(s): ASME; Ecole Cent Nantes, PROCEEDINGS OF THE ASME 11TH BIENNIAL CONFERENCE ON ENGINEERING SYSTEMS DESIGN AND ANALYSIS, 2012, VOL 3 Pag. 353-359, 2013, (Web of Science)	25	4	6,25
Tarca, R.; Popentiu Vladicescu, Fl; Csokmai, L. A Three-Dimensional Hand Position Sensing System Used To Control An IRB 1600 Robot 7th International Scientific Conference eLearning and Software for Education, eLearning and Software for Education, pp.: 552-557 (Web of Science)	25	3	8,333333333
Albeanu, G.; Tarca, R. C.; Popentiu-Vladicescu, Fl.; Pasc, I. Interoperability Assurance For Remote Mechatronic Laboratories Used For Virtual Training 6th International Scientific Conference eLearning and Software for Education, eLearning and Software for Education, pp.: 249-256 (Web of Science)	25	4	6,25
Albu, R.; Tarca, R. C.; Popentiu-Vladicescu, Fl.; Pasc, I. Designing Reliable Web-Based Virtual Laboratory Architectures 6th International Scientific Conference eLearning and Software for Education, eLearning and Software for Education, pp.: 403-409 (Web of Science)	25	4	6,25
Tarca, R., Csokmai, L., Vesselenyi, T., Tarca, I., Vladicescu, F. P. Augmented Reality Used to Control a Robot System via Internet International Joint Conference on Computer, Information, Systems Sciences and Engineering, Bridgeport, CT, DEC 05-13, 2008, , TECHNOLOGICAL DEVELOPMENTS IN EDUCATION AND AUTOMATION, Pag. 539-544, DOI 10.1007/978-90-481-3656-8_98, 2010, (Web of Science)	25	5	5
Tarca, R., Moldovan, O., Csokmai, L., Simulating The Control Of A Scara Robot By Means Of A 3d Hand Position Sensing System 5th International Conference on Robotics and Automation Systems, Solid State Phenomena, Vol.: 166-167, pp.: 433-438, DOI: 10.4028/www.scientific.net/SSP.166-167.433 (Web of Science)	25	3	8,333333333

Tarca, R., Tarca, I., Vladicescu, F. P. Virtual And Remote Control Laboratory Using Matlab Proceedings Of The 19th International DAAAM Symposium, pp: 1359-1360, (Web of Science)	25	3	8,333333333
Tarca, RC; Ivanescu, A; Barda, I; Albeanu, G; Pasc, I; Vladicescu, FP Augmented Reality Used for a Remote Robot Control WMSCI 2008: 12th World Multi-Conference On Systemics, Cybernetics And Informatics, Vol III, Proceedings, pp: 250-253 (Web of Science)	25	6	4,166666667
Moga, I., Vesselenyi, T., Tarca, R. C. Metal microstructure recognition using image processing methods 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, Zadar, CROATIA, OCT 24-27, 2007, Proceedings Of The 18th International DAAAM Symposium: Intelligent Manufacturing & Automation: Focus On Creativity, Responsibility, And Ethics Of Engineers, Pag. 471-472, 2007, (Web of Science)	25	3	8,333333333
Tarca, I.C.; Tarca, R.C.; Hule, V.I.; Blaga, F. Aspects regarding the lubricant film optimization for the helicoidally shaped thrust pad bearing 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, Zadar, CROATIA, OCT 24-27, 2007, Proceedings Of The 18th International DAAAM Symposium: Intelligent Manufacturing & Automation: Focus On Creativity, Responsibility, And Ethics Of Engineers, Pag. 737-738, 2007, (Web of Science)	25	4	6,25
Tarca, R.; Pasc, I.; Tarca, N; Popentiu-Vladicescu, F Remote robot control via Internet using Augmented Reality 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, Zadar, CROATIA, OCT 24-27, 2007, Proceedings Of The 18th International DAAAM Symposium: Intelligent Manufacturing & Automation: Focus On Creativity, Responsibility, And Ethics Of Engineers, Pag. 739-740, 2007, (Web of Science)	25	4	6,25
Tarca, R., C., Tarca, I., C., Tripe-Vidican, A., Vesselenyi T. The functional model of a robot system which presents a visual servoing control International Conference on Systems, Computing Science and Software Engineering, Bridgeport, CT, DEC 04-14, 2006, IEEE; Univ Bridgeport, Innovations And Advanced Techniques In Computer And Information Sciences And Engineering, Pag. 19-24, DOI:10.1007/978-1-4020-6268-1_4, 2007, (Web of Science)	25	4	6,25
Pasc, I.M.; Tarca, R.C.; Popentiu-Vladicescu, F; Albeanu, G On designing virtual environments based on intelligent mechatronic systems Proceedings of the ISSAT International Conference on Modeling of Complex Systems and Environments, pp.: 126-130, Ho Chi Minh City, VIETNAM (Web of Science)	25	4	6,25
Tarca, R.; Tarca, I.; Tripe Vidican, A.;Tocut P.D., Tripe V.C. The functional model of a robot system Proceedings of the 17th International DAAAM Symposium: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON MECHATRONICS AND ROBOTICS Pages: 413-414	25	5	5
Pop, MT; Tarca, I; Ungur, P; Tarca, R; Mudura, P Self lubricated composite journal bearing Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON RECONSTRUCTION AND DEVELOPMENT, pp: 477-478 (Web of Science)	25	5	5
Mudura, P; Ungur, P; Maghiar, T; Pop, MT; Tarca, R Metal-plastic-metal metal-plastic-oxide anticorrosive and decorative multilayer structure Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON RECONSTRUCTION AND DEVELOPMENT, pp: 309-310 (Web of Science)	25	5	5
Ungur, P; Maghiar, T; Pop, MT; Tarca, R; Mudura, P Capillary strong brazing of ARMCO alloy with CuOFHC, using an anticorrosive intermediary build-up layer Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON RECONSTRUCTION AND DEVELOPMENT, pp: 477-478 (Web of Science)	25	5	5
	0	0	

2	**2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale *, **	**Minim _8_ pentru profesor; Minim_5_ pentru conferentiar**	**(Formula: 15/nr.de autori)**	Alina CĂRĂBĂN, Radu ŢARCĂ, Ioan ŢARCĂ, Sanda BOTA, Alina COZMA, Dan ŢARCĂ, STUDIES ABOUT THE ALCOHOL DEHYDROGENASE ACTIVITY IN ETHANOL FERMENTATION USING OPTICAL FIBRE, Analele Universităţii din Oradea, Fascicola Protecţia Mediului, volumul XXX, Anul 23, acreditată CNCSIS cod 686, catergoria B+ , din anul 2010, ISSN-1224-6255, (EN) ISSN 2065-3438, (RO) ISSN 2065-3476, pp 185-190	15	6	2,5
				Kuantama E., Tarca R., Correction of Wind Effect on Quadcopter, The 3rd International Conference on Sustainable Information Engineering and Technology (SIET 2018), Malang, Indonesia, nov. 10-12.	15	2	7,5
				Birouas, F.I., Csokmai, L., Tarca D.I., Tarca, R.C., Data Aquisintion and Processing of Optical Fiber Bragg Grating Sensors, ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological Engineering, Volume XXVII (XVII), 2018/3. 444(5), 052028, nov. 2018	15	4	3,75
				Tarca, D.I., Tarca, R.C., Tarca, I.C., Internet of things and machine parts laboratory, MATEC Web of Conferences 184, 02009, 2018.	15	3	5
				Komal D/o Shoukat Ali Khuwaja, Brohi A.A., Mihalca, V.O., Ţarcă, R.C., Automatic fuel tank monitoring, tracking & theft detection system, MATEC Web of Conferences 184, 02011 (2018)	15	4	3,75
				A Cărăban, I Ţarcă, R Ţarcă, S Bota, A Dergez, S Filip, M Toderaş, E Macocian, A Cozma, Studies about wine fermentation using optical fibre biosensor. Analele Universităţii din Oradea, Fascicula: Protecţia Mediului 24,pp. 135-140	15	9	1,666666667
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4	**2.4 Proprietate intelectuala, brevete de inventie si inovatie, etc.**		**2.4.1 internationale (Formula: 40/nr.de autor)**		0	0	
				b)	0	0	
				c)	0	0	
				etc.	0	0	
			2.4.2 nationale (Formula: 20/nr.de autori)	a) Cărăban Alina, Gavriş Georgeta, Bungău Simona, Ţarcă Radu, Ţarcă Ioan, Filip Sanda Process and stand-installation for real-time determining the rate of the reaction of starch hydrolysis with amylases Patent Number(s): RO126794-A2, International Patent Classification: G01N-021/45; G01N-033/10; G06F-019/00, Derwent Class Code(s): D16 (Fermentation industry); D17 (Sugar and starch industry); S03 (Scientific Instrumentation, photometry, calorimetry); T01 (Digital Computers),	20	6	3,333333333
				b)	0	0	
				c)	0	0	
				etc.	0	0	

5	**2.5 Granturi/proiecte castigate prin competitie**	**2.5.1 Director/ Responsabil - Minim 2D sau 4R*** pentru Profesor / CS I ; Minim 1D sau 2R*** pentru Conferentiar / CS II**	**2.5.1.1 internationale (Formula: 20* val/ (10 mii €))**	a) Erasmus Mundus Action 2 - Partnerships. EACEA/18/13 - STRAND 1 - Lot 4 Titlu: LEADERS: Leading mobility between Europe and Asia in Developing Engineering Education and Research Acronim: LEADERS Valoare totala: 2.705.050 EURO LP: City University London, UK Partners: Politecnico Di Milano, Italy Technische Universität Dortmund, Germany University of Porto, Portugal University of Limerick, Ireland University of Oradea, Romania Frederick University, Cyprus Universitati din Asia de unde provin studentii, masteranzii, doctoranzii: United International University, Bangladesh, Bangladesh University of Engineering and Technology, Bangladesh, Khulna University of Engineering & Technology, Bangladesh, National University of Science and Technology, Pakistan, Mehran University of Engineering and Technology, Pakistan, Kathmandu University, Nepal, College of Science and Technology, Royal University of Bhutan, Bhutan, Information and Communication Technology Institute (ICTI), Afghanistan, Shanhai Jiao Tong University, China, Calcutta University, India, Bangkok University, Thailand, Multimedia University, Malaysia, University of Pelita Harapan, Indonesia, Military Institute of Science and Technology, Bangladesh, Faculty of Engineering, Kabul University.	201316	3	402,632
				b) Cod: HURO/0901/179/2.3.1. Titlu: "Cross-border Development and Implementation of a Master Program in Advanced Mechatronics Systems " Acronym: HURO-MECHA Valoare totală: 162192 Euro LP: University of Oradea, Romania PP1: University of Debrecen, Hungary Perioda de desfăşurare: 2011-2012 Funcţia în cadrul proiectului: Manager de proiect – Lead Partner	162192	1	324,384
				c)	0	0	
				etc.	0	0	
			2.5.1.2 nationale (Formula: 10* val/ (10 mii €))	a) SISTEM DE MASURARE CU FIBRE OPTICE PENTRU MONITORIZAREA IN TIMP REAL A BIOPROCESULUI DE FERMENTARE PN III 198PED 2017 Coordonator: UNIVERSITATEA DIN ORADEA Partener SC PRIMUS TECHNOLOGIES S.R.L. Director proiect: Prof.dr.ing. Tarca Radu Catalin	110553,9611	2	110,55
				b) Sistem informational pentru o retea logistica colaborativa dedicata IMM-urilor situate de-a lungul tronsonului roman a drumului european E60, Acronim PN II Parteneriate - SIRLC - 71-075/2007 Perioada: 2007-2010 Coordonator proiect: UNIVERSITATEA DIN ORADEA Director proiect: Prof.dr.ing. Tarca Radu Catalin Partener 1 : SC ISROM IMPEX SRL Partener 2 : SC ICTCM SA - INSTITUTUL DE CERCETARE SI PROIECTARE TEHNOLOGICA PENTRU CONSTRUCTIA DE MASINI Partener 3 : SC IPA SA - Sucursala CIFFAT Cluj Partener 4 : UNIVERSITATEA POLITEHNICA DIN BUCURESTI	306926,3587	3	306,9263587

				c) Realizarea de produse combustibile de inalta performanta din domeniul energiei curate si regenerabile tip peleti obtinute din deseuri lemnoase cu potential energetic ridicat PELETI – Perioada: 2008-2010 Responsabil proiect PP2 -UO: Prof.dr.ing. - Tarca Radu Catalin Coordonator proiect: SC ICTCM SA - INSTITUTUL DE CERCETARE SI PROIECTARE TEHNOLOGICA PENTRU CONSTRUCTIA DE MASINI	51252,9891	2	51,25298913
				d) Proiectarea si implementarea unui sistem de monitorizare a indicatorilor de proces pentru masina de turnat sub presiune de 840 tone din cadrul Faist Mekatronik	22100	1	22,1
				e) PROIECT PN II RU – MC -2007- 72 REMOTE ROBOT CONTROL VIA INTERNET USING AUGMENTED REALITY, grant UEFISCU 91-9.11.2007, val. 2240 Ron.„	614,13	0,08	0,61
				etc.	0	0	
	2.5.2 Membru in echi	**2.5.2.1 internationale (Formula: 4*nr.ani participare in proiect)**		HURO / 1101/191/2.2.1, acronim SMARTMAT	4	2	8
				HURO/0802/100, acronim MICROMODEL	4	2	8
				HURO 0901/028/2011-2012, acronim EPRAS	4	2	8
				HURO 1001/121/2.2.2/2011-2013, acronim BIOETHANOL	4	2	8
				Grant nr.101/2005, Adapting Modelling Gyps Parameters For The Internal Fabrications Of Gyps-Concrete Elements, Contractor: MAGYAR TUDOMANYOS AKADEMIA	4	1	4
		2.5.2.2 nationale (Formula: 2*nr.ani participare in proiect)		a) SmartDoct, Programe de înaltă calitate pentru doctoranzii și cercetătorii postdoctorat ai Universității din Oradea pentru creșterea relevanței cercetării și inovarii în contextul economiei regionale, Beneficiar proiect: Universitatea din Oradea, Partener: Agenția Județeană pentru Ocuparea Forței de Muncă Bihor, Valoare totală a proiectului: 6.436.627.61 de lei.	2	3	6
				a) Program PN III, Categoria de proiect: BRIDGE PN-III-P2-2.1-BG-2016-0296 SISTEM COLABORATIV DE DRONE AUTONOME UTILIZATE PENTRU IDENTIFICAREA LOCAȚIEI VICTIMELOR CALAMITĂȚILOR UTILIZÂND SEMNALELE TELEFOANELOR MOBILE ALE ACESTORA Coordonator: UNIVERSITATEA DIN ORADEA Partener SC TECCSWARM	2	2	4
				a) Program PARTENERIATE ÎN DOMENIILE PRIORITARE, Categoria de proiect: PC, Nr.92- 112/3/01.10.2008 Dezvoltarea unui sistem computerizat pentru evaluarea noxelor profesionale de tip vibraţii mecanice şi a impactului asupra operatorului uman la locul de muncă – VIBROM Coordonator: SC. IPA SA Partener 3: UNIVERSITATEA DIN ORADEA	2	3	6
				Program CEEX NR. 751/11.09.2006 Concepte moderne conform cu reglementările europene specifice privind ecologia zgomotului transportului de suprafaţă – ECOT Coordonator: UNIVERSITATEA TEHNICA CLUJ-NAPOCA, Partener 2: UNIVERSITATEA DIN ORADEA Membru în colectivul de cercetare	2	3	6
				Program CEEX NR. 129/02.10. 2006 Sistem computerizat de monitorizare a poluării prin sunete şi vibraţii în aglomerările urbane –SICOMSUV Coordonator: UNIVERSITATEA TEHNICA CLUJ-NAPOCA, Partener 2: UNIVERSITATEA DIN ORADEA Membru în colectivul de cercetare	2	3	6
				Program CEEX Nr. Contract: 243/2006 Reţeaua naţională de cercetare în domeniul ingineriei integrate a produsului şi a proceselor- INPRO Coordonator: UNIVERSITATEA POLITEHNICA TIMISOARA Partener 5: UNIVERSITATEA DIN ORADEA Membru în colectivul de cercetare	2	3	6
				Contract ANSTI/ nr. 220 / 06.03.1996. Act adiţional:nr. 313/I / 01.02. 2000, Cercetări privind planificarea fabricaţiei în sisteme de fabricaţie flexibilă, Membru în colectivul de cercetare	2	1	2
					0	0	
				etc.	0	0	

6	**2.6 Coordonare/ dezvoltare laborator/ centru cercetare (daca este si didactic, punctajul se cuantifica o singura data)**	**Responsabil**	**40**	Director Centru de Cercetare Stiintifica „PRODUCTICA IMT"	40		40
				Dezvoltare laborator Interdisciplinary Research Infrastructure in Robotics - IRIROB Lab https://erris.gov.ro/index.php?&ddpN=1693097241&we=d3cdf3482aed0446e2532b946e1769a8&wf=dGFCall&wtok=c400629b4b86a170d862bf7b23ae3d6bb716a595&wtkps=HYxLCsMwDAXvogOE2JaTSN4Xegx/FGrq0lCnZFF699jhbQbeMJ6Rf5Utw7E/SwWXWdlFEbrKhqHmBJ00g5KR0CRJREbTGAxOq4RJ6WTb5tC9ph3SQc0Mr3f6Fhn8tg1V/Cc++kEMcb35mMv9KmML44Lg/ic=&wchk=bf6198e776a12760db64b07335015a73b57e843e	40		40
				Dezvoltare laborator Integrated Sensors and Biosensors Laboratory - ISBL https://erris.gov.ro/index.php?&ddpN=1693097241&we=d3cdf3482aed0446e2532b946e1769a8&wf=dGFCall&wtok=dd7a54ce54c99157c7df77592a6940ed4ad884fe&wtkps=HYxLCsMwDAXvogOE+KMkkveFHsMfhZq6NNQpWZTePXZ4m4E3jGfLv8rIcOzPUsFlVrgoQlfZMNScoJNmUDKSNUkSkdE0BmOnVcKkdMK2OXSvaYd0UDPD652+RQa/bUMV/4mPfhBDXG8+5nK/yraF7YLg/ic=&wchk=51f39584bb5036c137926f20c76eab6c27b4d1a5	40		40

Total punctaj A2 **2132,555439**

Data:

Director departament,
Conf.Dr.Ing. Sorin PATER

Candidat,
Prof.Dr.Ing. Radu TARCA

Recunoaşterea impactului activităţii (A3)

1	3.1 Citări in revist		3.1.1 ISI (Formula: 10/nr. autori articol citat)	PID and Fuzzy-PID Control Model for Quadcopter Attitude with Disturbance Parameter By: Kuantama, E.; Vesselenyi, T.; Dzitac, S.; Tarca, R., INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 12 Issue: 4 Pages: 519-532 Published: AUG 2017 Times cited 18	10	4	45
				Identification of ERD using Fuzzy Inference Systems for Brain-Computer Interface By: Dzitac, I.; Vesselenyi, T.; Tarca, R. C. INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 6 Issue: 3 Special Issue: SI Pages: 403-417 Published: SEP 2011 Times Cited 15	10	3	50
				A Comprehensive Approach to Off-line Advanced Error Troubleshooting in Intelligent Manufacturing Systems By: Csokmai, L. S.; Tarca, R. C.; Bungau, C.; et al., INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 10 Issue: 1 Pages: 30-37 Published: FEB 2015 Times cited 13	10	4	32,5
				Quadcopter Propeller Design and Performance Analysis, By: Kuantama, E., Craciun, D., Tarca, I., Tarca, R., Joint International Conference of the 12th International Conference on Mechanisms and Mechanical Transmissions (MTM) / 23rd International Conference on Robotics (Robotics), Aachen, GERMANY, October, 2016 SPRINGER, Mechanisms and Machine Science, Vol. 46, pag.: 269-277, DOI: 10.1007/978-3-319-45450-4_27 Times cited 6	10	5	12
				IoT Devices Signals Processing based on Multi-dimensional Shepard Local Approximation Operators in Riesz MV-algebras, Noje, D.; Tarca, R.; Dzitac, I.; Pop, N., INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, Volume: 14 Issue: 1 Pages: 56-62, Times cited 5	10	5	10
				Augmented Reality Used to Control a Robot System via Internet, By: Tarca, R.; Csokmai, L.; Vesselenyi, T.; et al., Conference: International Joint Conference on Computer, Information, Systems Sciences and Engineering Location: Bridgeport, CT Date: DEC 05-13, 2008, Times cited 5 TECHNOLOGICAL DEVELOPMENTS IN EDUCATION AND AUTOMATION Pages: 539-544 Published: 2010, Times cited 5	10	5	10
				Flight Stability Analysis of a Symmetrically-Structured Quadcopter Based on Thrust Data Logger Information, By: Kuantama, E., Tarca, I., Dzitac, S., Dzitac, I.,Tarca, R ., SYMMETRY-BASEL, Volume: 10 Issue: 7, Article Number: 291, DOI: 10.3390/sym10070291, July 2018 Times cited 4	10	5	8
				Anthropometric measurements for hand rehabilitation robotic devices using video processing, By: Birouas, F. I.; Avram, F.; Tarca, R. C., Conference: 8th International Conference on Advanced Concepts in Mechanical Engineering (ACME) Location: Iasi, ROMANIA Date: JUN 07-08, 2018, Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Mech Engn Fac; Romanian Minist Natl Educ & Sci Res; Romanian Acad Tech Sci; Acad Romanian Scientists, 8TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 444 Article Number: 052028 Published: 2018, Times cited 4	10	3	13,33333333

INTEROPERABILITY ASSURANCE FOR REMOTE MECHATRONIC LABORATORIES USED FOR VIRTUAL TRAINING By: Albeanu, Grigore; Tarca, Radu Catalin; Popentiu-Vladicescu, Florin; et al., Conference: 6th International Scientific Conference on eLearning and Software for Education Location: Bucharest, ROMANIA Date: APR 15-16, 2010, Sponsor(s): Siveco; Adv Distributed Learning; Altfactor; ComputerLand; AVITECH; Expert Trade Co; Adv Technol Syst ADVANCED DISTRIBUTED LEARNING IN EDUCATION AND TRAINING TRANSFORMATION Pages: 249-256 Published: 2010, Times Cited 4	10	4	10
Remote robot control via Internet using Augmented Reality, Tarca, R.; Pasc, I.; Tarca, N; Popentiu-Vladicescu, F., 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, Zadar, CROATIA, OCT 24-27, 2007, Proceedings Of The 18th International DAAAM Symposium: Intelligent Manufacturing & Automation: Focus On Creativity, Responsibility, And Ethics Of Engineers, Pag. 739-740, 2007, Times cited 4	10	5	8
IoT Devices Signals Processing Based on Shepard Local Approximation Operators Defined in Riesz MV-Algebras, By: Noje, Dan; Dzitac, Ioan; Pop, Nicolae; Tarca R., INFORMATICA Volume: 31 Issue: 1 Pages: 131-142 Published: 2020 , Times cited 3	10	4	7,5
The Design and Experimental Development of Air Scanning Using a Sniffer Quadcopter, By: Kuantama, Endrowednes; Tarca, Radu; Dzitac, Simona; Dzitac,Ioan, Vesselenyi, Tiberiu, Tarca, Ioan,, SENSORS Volume: 19 Issue: 18 Article Number: 3849 Published: SEP 2 2019, Times cited 3	10	6	5
Development and testing of a mixed feedback control system for robotic hand exoskeleton, By: Birouas, Flaviu-Ionut; Tarca, Radu-Catalin, Conference: 15th International Conference on Engineering of Modern Electric Systems (EMES) Location: Oradea, ROMANIA Date: JUN 13-14, 2019, Sponsor(s): IEEE; , 2019 15TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 17-20 Published: 2019 , Times cited 3	10	2	15
A New Optic Fiber Sensor for Measuring the Concentration of Ethanol in Wine, By: Tarca, Radu Catalin; Caraban, Alina Maria; Bota, Sanda; et al., REVISTA DE CHIMIE Volume: 65 Issue: 10 Pages: 1238-1241 Published: OCT 2014, Times cited 3	10	6	5
Feedback Linearization LQR Control for Quadcopter Position Tracking , By: Kuantama, Endrowednes; Tarca, Ioan; Tarca, Radu, Conference: 5th International Conference on Control, Decision and Information Technologies (CoDIT) Location: Thessaloniki, GREECE Date: APR 10-13, 2018, Sponsor(s): IEEE Syst Man & Cybernet Soc; IEEE Control Syst Soc, 2018 5TH INTERNATIONAL CONFERENCE ON CONTROL, DECISION AND INFORMATION TECHNOLOGIES (CODIT) Book Series: International Conference on Control Decision and Information Technologies Pages: 204-209 Published: 2018 , Times cited 3	10	3	10

On designing virtual environments based on intelligent mechatronic systems, By: Pasc, Ildiko Margit; Tarca, Radu Catalin; Popentiu-Vladicescu, Florin;Albeanu, G., Conference: ISSAT International Conference on Modeling of Complex Systems and Environments Location: Ho Chi Minh City, VIETNAM Date: JUL 16-18, 2007, PROCEEDINGS OF THE ISSAT INTERNATIONAL CONFERENCE ON MODELING OF COMPLEX SYSTEMS AND ENVIRONMENTS, PROCEEDINGS Pages: 126 -+ Published: 2007 , Times cited 2	10	4	2,5
Preliminary Results in Testing of a Novel Asymmetric Underactuated Robotic Hand Exoskeleton for Motor Impairment Rehabilitation, By: Birouas, Flaviu Ionut; Tarca, Radu Catalin; Dzitac, Simona; Dzitac I., SYMMETRY-BASEL Volume: 12 Issue: 9 Article Number: 1470 Published: SEP 2020, Times cited 2	10	4	2,5
Quadcopter Modeling in Virtual Reality for Dynamic Visualization , By: Kuantama, Endrowednes; Tarca, Ioan; Tarca, Radu, Conference: 5th International Conference on Control, Decision and Information Technologies (CoDIT) Location: Thessaloniki, GREECE Date: APR 10-13, 2018, Sponsor(s): IEEE Syst Man & Cybernet Soc; IEEE Control Syst Soc; 2018 5TH INTERNATIONAL CONFERENCE ON CONTROL, DECISION AND INFORMATION TECHNOLOGIES (CODIT) Book Series: International Conference on Control Decision and Information Technologies Pages: 671-676 Published: 2018 , Times cited 1	10	3	3,333333333
Software Framework for Advanced Error Troubleshooting In Flexible Manufacturing System, By: Csokmai, Lehel; Moldovan, Ovidiu; Tarca, Ioan; Tarca R., Conference: 3rd International Conference on Advanced Design and Manufacturing Engineering (ADME 2013) Location: Anshan, PEOPLES R CHINA Date: JUL 13-14, 2013, ADVANCED DESIGN AND MANUFACTURING TECHNOLOGY III, PTS 1-4 Book Series: Applied Mechanics and Materials Volume: 397-400 Pages: 21 -+ Published: 2013 , Times cited 1	10	4	2,5
DESIGNING RELIABLE WEB-BASED VIRTUAL LABORATORY ARCHITECTURES, By: Albu, Razvan-Daniel; Tarca, Radu Catalin; Popentiu-Vladicescu, Florin; Pasc, I., Conference: 6th International Scientific Conference on e-Learning and Software for Education Location: Bucharest, ROMANIA Date: APR 15-16, 2010, ADVANCED DISTRIBUTED LEARNING IN EDUCATION AND TRAINING TRANSFORMATION Pages: 403-409 Published: 2010 , Times cited 1	10	3	3,333333333
Augmented Reality Used for a Remote Robot Control, By: Tarca, Radu Catalin; Ivanescu, Andrei; Barda, Ioana; Albeanu, G.; Pasc, I.; Popentiu, V.Fl., Conference: 12th World Multi-Conference on Systemics, Cybernetics and Informatics/14th International Conference on Information Systems Analysis and Synthesis Location: Orlando, FL, WMSCI 2008: 12TH WORLD MULTI-CONFERENCE ON SYSTEMICS, CYBERNETICS AND INFORMATICS, VOL III, PROCEEDINGS Pages: 250-253 Published: 200 , Times cited 1	10	6	1,666666667
etc.	0	0	
3.1.2 BDI (Formula: 5/nr. autori articol citat)	PID and Fuzzy-PID control model for quadcopter attitude with disturbance parameter, E Kuantama, T Vesselenyi, S Dzitac, R Tarca, International journal of computers communications & control 12 (4), 519-532	5	4	22,5

Quadcopter body frame model and analysis, E Kuantama, D Craciun, R Tarca, Annals of The University of Oradea, 71-74	5	3	31,66666667
Identification of ERD using fuzzy inference systems for brain-computer interface, I Dzitac, T Vesselényi, RC Ţarcă, International Journal of Computers Communications & Control 6 (3), 403-417	5	3	3,333333333
Remote robot control via internet using augmented reality, R Tarca, I Pasc, N Tarca, F Popentiu-Vladicescu, Annals of DAAAM & Proceedings, 739-741	5	4	11,25
Feedback linearization LQR control for quadcopter position tracking, E Kuantama, I Tarca, R Tarca, 2018 5th International Conference on Control, Decision and Information...	5	4	10
Quadcopter propeller design and performance analysis, E Kuantama, D Craciun, I Tarca, R Tarca, New Advances in Mechanisms, Mechanical Transmissions and Robotics, 269-277	5	4	5
Augmented Reality Used to Control a Robot System via Internet, R Tarca, L Csokmai, T Vesselenyi, I Tarca, FP Vladicescu, Technological Developments in Education and Automation, 539-544	5	5	3
PID Controller Tuning Optimization with Genetic Algorithms for a Quadcopter, K Khuwaja, IC Tarca, RC Tarca, Recent Innovations in Mechatronics 5 (1.), 1-7.	5	3	11,66666667
Software framework for advanced error troubleshooting in flexible manufacturing system, L Csokmai, O Moldovan, IC Tarca, R Tarca, Applied Mechanics and Materials 397, 21-24	5	4	6,25
On designing virtual environments based on intelligent mechatronic systems, IM Pasc, RC Tarca, F Popentiu-Vladicescu, G Albeanu, ISSAT International Conference on Modeling of Complex Systems and ...	5	4	5
Tehno'95, R Ţarcă, I Ţarcă, T Vesseleny, The 7-th International Conference In IMT, Timisoara, 59-63	5	3	10
QUADCOPTER ATTITUDE AND THRUST SIMULATION BASED ON SIMULINK PLATFORM, E Kuantama, R Tarca, Robotica & Management 20 (2)	5	2	12,5
A comprehensive approach of advanced error troubleshooting in intelligent manufacturing systems, L Csokmai, O Moldovan, IC Tarca, R Tarca, Applied Mechanics and Materials 404, 631-634	5	4	6,25
INTEROPERABILITY ASSURANCE FOR REMOTE MECHATRONIC LABORATORIES USED FOR VIRTUAL TRAINING, G Albeanu, RC Ţarcă, F Popenţiu-Vlădicescu, IM Paşc, eLearning & Software for Education	5	4	1,25
The VRML Model and VR Simluation for a SCARA Robot, I Paşc, R Ţarcă, F Popenţiu-Vlădicescu, Annals of the Oradea University. Fascicle of Management and Technological	5	3	8,333333333
The Design and Experimental Development of Air Scanning Using a Sniffer Quadcopter, E Kuantama, R Tarca, S Dzitac, I Dzitac, T Vesselenyi, I Tarca, Sensors 19 (18), 3849	5	6	0,833333333

A new optic fiber sensor for measuring the concentration of ethanol in wine, RC Tarca, AM Caraban, S Bota, IC Tarca, A Dergez, AC Cozma, Rev. Chim 65 (10), 2038-2041	5	6	0,833333333
Virtual Reality Based Visualization and Training of a Quadcopter by using RC Remote Control Transmitter, K Khuwaja, BS Chowdhry, KF Khuwaja, VO Mihalca, R Tarca, IOP Conference Series: Materials Science and Engineering	5	5	3
Service-oriented reliability analysis for collaborative mechatronic laboratories involved in virtual training, H Madsen, G Albeanu, RC Tarca, F Popentiu-Vladicescu, Proceedings of ESREL 2010, Annual Conference, 5-9 September 2010, Rhodes, Greece	5	4	3,75
Architectures for the E-Learning Mechatronic Laboratory at the University of Oradea, Fl Popentiu-Vladicescu, I Pasc, RC Tarca	5	3	5
Analysis of quadcopter propeller vibration based on laser vibrometer, E Kuantama, OG Moldovan, I Ţarcă, T Vesselényi, R Ţarcă, Journal of Low Frequency Noise, Vibration and Active Control, 1461348419866292	5	5	2
Survey of Brain Computer Interface Systems, RB NAGY, F POPENTIU, C Tarca, Annals of Unv Oradea	5	3	3,333333333
Designing Reliable Web-based Virtual Laboratory Architectures, RD Albu, RC ŢARCĂ, F POPENŢIU-VLĂDICESCU, IM PAŞC, The 6th International Scientific Conference eLearning and Software for ...	5	4	1,25
Fuzzy and neural method based on agents clustering used for a logistic system, I Tarca, R Tarca, T Vesselenyi	5	3	3,333333333
An expert system for determining the structure and the configuration of the vacuum prehensile devices used in the extraction of the injected parts, PD Tocut, RC Tarcă, T Vesselenyi, T Vidican C, PROCEEDINGS OF 4TH INTERNATIONAL CONFERENCE OF ROBOTICS November, 13-14	5	4	2,5
Architectures for the E-learning mechatronic laboratory at University of Oradea, P Ildiko, RC Tarcă, F Popenţiu-Vlădicescu, The 3rd International Science Conference,"E-learning and Software for...	5	3	3,333333333
Metal microstructure recognition using image processing methods, I Moga, T Vesselenyi, RC Tarca, Annals of DAAAM & Proceedings, 471-473	5	3	3,333333333
An expert system for determining the structure and the configuration of the vacuum prehensile devices used in the extraction of the injected parts. PROCEEDINGS OF 4TH INTERNATIONAL CONFERINCE OF ROBOTICS, November 13-14, 2008, PD Tocut, RC Tarcă, T Vesselenyi, CT Vidican, 15 (50), 739-744	5	4	2,5
Constructive optimizations of a prehensile vacuum device with sideway catch. PROCEEDINGS OF 4TH INTERNATIONAL CONFERINCE OF ROBOTICS, November 13-14, 2008 Brasov, PD Tocut, RC Tarca, T Vesselenyi, CT Vidican, România 15 (50), 739-744	5	4	2,5
ACCURACY MEASUREMENT OF THE NATIONAL INSTRUMENT STARTER KIT 2.0'S PING))) ULTRASONIC SENSOR, N Robert-Bela, F POPENTIU, RC TARCA	5	3	3,333333333
Automatic fuel tank monitoring, tracking & theft detection system, BA Ali, VO Mihalca, ŢR Cătălin, MATEC Web of Conferences 184, 02011	5	3	3,333333333

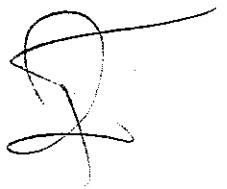
				Quadcopter thrust optimization with ducted-propeller, E Kuantama, R Tarca, MATEC Web of Conferences 126, 01002	5	2	7,5
				Virtual And Remote Control Lab Experiment Using Matlab, R Tarca, ANNALS OF THE UNIVERSITY OF ORADEA. Fascicle of Management and Technological	5	1	5
				etc.	0	0	
2	**3.2 Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale şi Profesor invitat (exclusiv ERASMUS)**		**3.2.1 internationale (Formula:**	a) INNOVATIVE BRAIN-MACHINE INTERFACES AND THEIR ENVIRONMENT - NEW TRENDS IN MEDICAL AND SERVICE ROBOTS, INTERNATIONAL EXPLORATORY WORKSHOP, CESTER http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=7&cad=rja&uact=8&ved=0ahUKEwj12oqC17DRAhVMwBQKHZ4nCA4QFghEMAY&url=http%3A%2F%2Fwww.cester.utcluj.ro%2Fimages%2Fmesrob2012%2FProgram_Workshop_final.pdf&usg=AFQjCNErj-9QB_3ud5EsRCRpSpswiUQQzg&sig2=rSgQUcflujo1bIRNw20I6g	20		20
				b)	0		0
				c)	0		0
					0		0
					0		0
				etc.	0		0
			3.2.2 nationale (Formula: 10)	a) QUADCOPTER BODY FRAME MODEL AND ANALYSIS - "IMT Oradea" - 2016, May 26th – 28th Felix SPA, Oradea ROMÂNIA http://imtuoradea.ro/conf/download/Program_IMT_Oradea_2016.pdf	10		10
				b) Bacteria growth sensing- prof. dr. eng. Radu TARCA. Workshop "Realization of Hungarian- Romanian R&D Laboratory for the Development of Major Projects in Polluted Terrain Cleaning" **14th** of December 2012 http://imtuoradea.ro/micromodel/upload/Workshop%2014.12.2012/Program%20WORKSHOP%20ORADEA%2014%20DECEMBRIE%202012.pdf	10		10
				c) Modular measuring suite - on innovative optical sensing solution-prof. dr. eng. Radu TARCA, University of Orodea, Workshop"Realization of Hungarian- Romanian R&D Laboratory for the Development of Major Projects in Polluted Terrain Cleaning" 14th of December 2012 http://imtuoradea.ro/micromodel/upload/Workshop%2014.12.2012/Program%20WORKSHOP%20ORADEA%2014%20DECEMBRIE%202012.pdf	10		10

				c) Monitoring system for ethanol concentration using neural networks WORKSHOP "A new method and system for real time fermentation process monitoring" 27 mai 2013 - Hotel Ramada Oradea http://imtuoradea.ro/bioethanol/upload/Workshop%2027.05.2013/Invitation%20Program.pdf	10		10
				d) Studies using FBG sensors for alchohol concentration determination WORKSHOP "A new method and system for real time fermentation process monitoring"21 Octomber 2013 - Hotel Ramada Oradea http://imtuoradea.ro/bioethanol/upload/Workshop%2021.10.2013/workshop.21.10.2013.invitation.pdf	10		10
				etc.	0		0

3	**3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzent pentru reviste si manifestari stiintifice nationale si internationale indexate ISI**		**3.3.1 ISI (Formula: 10)**	Scientific Comitee of the 13th International Conference ROBTEP 2014 – Industrial service and Humanoid Robotics, Slovakia	10		10
				ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis (ESDA2012), Nantes, France, 2012, recenzor	10		10
				Scientific Comitee of the 11th International Conference ROBTEP 2012 – Industrial service and Humanoid Robotics, Slovakia	10		10
				Journal of Control Engineering and Applied Informatics ISSN 1454-8658 - recenzor	10		10
				Mechatronics, A journal of IFAC, the International Federation of Automatic Control, Impact Factor: 2.496, Ref: MECH-D-17-00012R4, Recenzor	10		10
				Kybernetika, International journal published by Institute of Information Theory and Automation, Impact Factor: 0.628, ID: 4636, review done	10		10
				Journal: IEEE Sensors Journal, Manuscript ID Sensors-28401-2019, IF 3,076	10		10
				Journal of Aerospace Engineering ISSN : 0893-1321, Review identifier(s) SOURCE-WORK-ID: 4739c363-6e55-4d1f-afbc-5de563ce9966	10		10
				Actuators (ISSN 2076-0825)	10		10
				Applied Sciences (ISSN 2076-3417)	10		10
				Sensors (ISSN 1424-8220)	10		10
					0		0
				etc.	0		0
				The Electronic Journal of e-Learning (EJEL) Review Committee http://www.ejel.org/editorial.html	8		8
				International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Hungary, Member of Wolters Kluwer Group http://akademiai.hu/72/journals/products/engineering_sciences/international_review_of_applied_sciences_and_engineering	8		8
				Journal of Electrical and Electronics Engineering (JEEE), ASSOCIATE EDITOR http://electroinf.uoradea.ro/index.php/jeee.html	8		8
				ANNALS of the ORADEA UNIVERSITY. FASCICLE OF MANAGEMENT AND TECHNOLOGICAL ENGINEERING (Romania) Editor	8		8
				Scientific Commitee of Conference ROBOTICS 08	8		8
				18th International Conference on System Theory, Control and Computing ICSTCC 2014, Recenzor	8		8
				2nd International Conference on Electrical Information and Communication Technology (EICT-2015) (10-12 December 2015, KUET, Khulna, Bangladesh) - International Advisory Committee http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiGwd6n5LDRAhVEVxQKHQvxCJAQFggIMAA&url=http%3A%2F%2Fwww2.kuet.ac.bd%2Feict2015%2F&usg=AFQjCNHx0oIRZvaZtlYVJRoBKYYGqWa0Yg&sig2=F1sZu5AEcrR9pxEymO13pA	8		8
				3rd International Conference on Electrical Information and Communication Technology (EICT-2017) (7-9 December 2017, KUET, Khulna, Bangladesh) - International Advisory Committee	8		8
				ROBOTICS'10 2010 International Conference on Robotics 23-25 September 2010, Cluj-Napoca, Romania, International Program Committee http://www.robotics10.utcluj.ro/committees.html	8		8
				5th International Conference on Control, Decision and Information Technologies (CoDIT) 2018, CoDIT18_0187_MS (1), Recenzor	8		8

	Internetworking Indonesia Journal, The International Journal of ICT and Internet Development, Computing, Communications, Engineering & Internet Technologies, Recenzor	8		8
	2019-6TH INTERNATIONAL CONFERENCE ON CONTROL, DECISION AND INFORMATION TECHNOLOGIES, CoDIT'19 April 23-26, 2019 at Paris, France, Program committee members	8		8
	4th International Conference on Electrical Information and Communication Technology (EICT-2019) (19-21 December 2019, KUET, Khulna, Bangladesh) - International Advisory Committee	8		8
	Drones, Journal, Computationally Efficient Force and Moment Models for Propellers in UAV Forward Flight Applications, 2019	8		8
3.3.3 Nationale si internationale neindexate (Formula: 5)	Scientific Commitee of Conference „Service and Humanoid Robotics", 2009, Slovakia	5		5
	Cel de-al XV-lea Simpozion Național de Robotică „Robotica 2000" oradea-Baile Felix, 2000	5		5
	b) Electrical Engineering and Mechatronics Conference EEMC'17 held on the 9th-10th March, 2017	5		5
	XIII International Conference "Applied Stochastic Models and Data Analysis", ASMDA 2009, June 30- July 3, 2009, Vilnius LITHUANIA http://leidykla.vgtu.lt/conferences/ASMDA_2009/Board_of_reviewers.htm	5		5
	Workshop "Cross border Development and Implementation of a Master Program in Advanced Mechatronics Systems" Hotel Ramada, Oradea, 30th of January, 2012 http://imtuoradea.ro/huromecha/upload/Workshop%2030.01.2012/Invitatie%20si%20Program%20WorkShop%20-%20MECHA%20-%2030.01.2012.pdf	5		5
	Workshop "Cross border Development and Implementation of a Master Program in Advanced Mechatronics Systems" Hotel Aquaticum, Debrecen, 13-14th of October, 2011 http://imtuoradea.ro/huromecha/workshop.13-14.10.2011.php	5		5
	Workshop "Cross border Development and Implementation of a Master Program in Advanced Mechatronics Systems" Hotel Termal, Băile Felix, 27th of May, 2011 http://www.huro-cbc.eu/ro/detalii_eveniment/huro0901179__workshop__proiect_huro_mecha/258	5		5
	SESIUNEA ANUALĂ DE LUCRĂRI ȘTIINȚIFICE IMT ORADEA, Baile Felix SPA, 2004-2016 http://imtuoradea.ro/conf/download/Scientific%20Committee.pdf	5x13		65
	Al XV-lea Simpozion National "ROBOTICA" 2000, Oradea	5		5
	Engineering Science Journal, Editorial Board, 2016 http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=619	5		5
	etc.	0		0

4	**3.4 Experienta de management, analiza si evaluare in cercetare si/sau invatamant**		**3.4.1 Conducere (Formula: 5*ani desfasurare)**	a) Director Departament/Şef de Catedră Catedra/Departamentul de Mecatronică Facultatea de Inginerie Manageriala si Tehnologica	5	13	65
				b) Director Centru de Cercetare Ştiintifică "PRODUCTICA IMT" Facultatea de Inginerie Manageriala si Tehnologica	5	7	35
				c) UNESCO Co-Chairholder of the UNESCO Chair in Information Technologies Facultatea de Inginerie Manageriala si Tehnologica	5	12	60
				d) Presedintele Comisiei de Buget-Finanțe a Universității din Oradea	5	3	15
				e) Vicepresedinte Coonsiliu Resurse Fianciare al Universitatii din Oradea	5	4	20
				f) Prorector	5	0,5	2,5
				g) Director CSUD	5	4	20
			3.4.2 Membru (Formula: 2*ani desfasurare)	a) Membru al Senatului Universitatii din Oradea	2	5	10
				b) Membru al Consiliului Facultatii de IMT	2	14	28
				c) Membru CRF al UO	2	5	10
				d) Membru al Corpului Auditorilor Interni din UO	2	12	24
				e)Membru in Consiliul de Administratie	2	5	10
				f) Membru CSUD	2	4	8
5	**3.5 Premii**		**3.5.1 Academia Romana (Formula: 30)**	a)	0		0
				b)	0		0
				c)	0		0
				etc.	0		0
			3.5.2 ASAS, AOSR, academii de ramura şi CNCSIS (Formula: 15)	a)	0		0
				b)	0		0
				c)	0		0
				etc.	0		0
			3.5.3 Premii internationale (Formula: 10)	a) Honorary Associate Professor - University of Debrecen - 16 febr 2011 http://www.eng.unideb.hu/userdir/vmt2/index.php/en/oktatok/vendegoktatok/9-prof-dr-radu-catalin-tarca.html	10		10
				b)	0		0
				c)	0		0
				etc.	0		0



			3.5.4 Premii nationale in domeniu (Formula: 5)	a) Medalia de argint la Salonul International de Inventica Cluj-Napoca, Romania, 2012, inventia "Procedeu şi instalaţie - stand pentru determinarea în timp real a vitezei reacţiei de hidroliză a amidonului cu amilaze " autori Cărăban Alina, Ţarcă Radu Cătălin, Ţarcă Ioan, Gavriş Georgeta, Bungău Simona, Filip Sanda	5		5
				b) Medalia de aur la Salonul Internaţional al Cercetării, Inovării şi Inventicii – Inventica 2016, de la Iaşi, Romania, 2016, inventia "Procedeu şi instalaţie - stand pentru determinarea în timp real a vitezei reacţiei de hidroliză a amidonului cu amilaze " autori Cărăban Alina, Ţarcă Radu Cătălin, Ţarcă Ioan, Gavriş Georgeta, Bungău Simona, Filip Sanda	5		5
				c)	0		0
				etc.	0		0
6	**3.6 Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale, apartenenţă la organizatii din domeniul educatiei si cercetarii**	**3.6.1 Academia Roman**	**(Formula: 100)**		0		0
		3.6.2 ASAS, AOSR si academii de ramura	**(Formula: 20)**	a)	0		0
				b)	0		0
				c)	0		0
				d)	0		0
				e)	0		0
		3.6.3 Conducere asociatii profesionale	**3.6.3.1 internationale (Formula: 30)**	a)	0		0
				b)	0		0
				c)	0		0
				d)	0		0
				e)	0		0
			3.6.3.2 nationale (Formula: 10)	a)	0		0
				b)	0		0
				c)	0		0
				d)	0		0
				e)	0		0
		3.6.4 Asociatii profesionale	**3.6.4.1 internationale (Formula: 5)**	a)	0		0
				b)	0		0
				c)	0		0
				d)	0		0
				e)	0		0
			3.6.4.2 nationale (Formula: 3)	a) Societatea Română de Robotică http://www.robotics-society.ro/filiale/oradea.pdf	3		3
				b) Asociaţia Română de Stiinta Mecanismelor si Masinilor http://www.arotmm.ro/pagini/Filiale/oradea.htm	3		3
				c) Asociatia Română de Tribologie http://www.arotrib.ro/	3		3
							0
				e)	0		0
		3.6.5 Organizatii în domeniul educaţiei şi cercetării	**3.6.5.1 Conducere (Formula: 1**	a)	0		0
				b)	0		0
				c)	0		0
				d)	0		0
				e)	0		0
				f)	0		0
			3.6.5.2 Membru (Formula: 5)	a) evaluator ARACIS domeniul Mecatronica si Robotica	5		5

				b) evaluator UEFISCDI panel Inginerie mecanica http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&cad=rja&uact=8&ved=0ahUKEwj12oqC17DRAhVMwBQKHZ4nCA4QFgggMAE&url=http%3A%2F%2Fuefiscdi.gov.ro%2Fuserfiles%2Ffile%2FPN%2520II%2520_PCE%2520competitia%25202008%2Fmonitorizare%25202010%2FPREZENTA%2FPrezenta%25202A.pdf&usg=AFQjCNHvPtms3GCjVFViEVxFIT6CktTuoQ&sig2=EER00Hx1jKaHGYtGwpAY8w	5		5
				c) evaluator AMCSIT http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&cad=rja&uact=8&ved=0ahUKEwirysOl5rLRAhWOKywKHSOqB20QFggsMAI&url=http%3A%2F%2Fwww.research.ro%2Fimg%2Ffiles_up%2F1200329981Inova%2520Exp%252007.xls&usg=AFQjCNG4K1NEGNP_z-IV65e_T3OcvkqS1g&sig2=u4_melJAmAKWu9iUK2TL8g	5		5
				d) evaluator CNMP http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&cad=rja&uact=8&ved=0ahUKEwjShlS76bLRAhUKiiwKHcBEArkQFgg1MAQ&url=http%3A%2F%2Fwww.cnmp.ro%2Fpncdi2%2Fprogram4%2Fdocumente%2F2009%2FEvaluatori_Program4_2008.pdf&usg=AFQjCNG6EuoqmHVbvysgGesghCYcvcNJDw&sig2=U1T0dibIVKibjylP1iL4FA	5		5
				e) evaluator CNCSIS http://www.google.ro/url?sa=t&rct=j&q=&esrc=s&source=web&cd=10&cad=rja&uact=8&ved=0ahUKEwiaq4Xk6LLRAhWF3CwKHcsvC0gQFghYMAk&url=http%3A%2F%2Fwww.mct-excelenta.ro%2Ffileadmin%2Fmct%2F2006%2Fplata%2Fcarduri_lista3.pdf&usg=AFQjCNGD6_aJBBzhjsV89_0eqHQIDnU9Zw&sig2=xMbRFzQqG_jAFmszXNHHLg	5		5

Total punctaj A3 **1225,333333**

Data:
44216

Director departament,
Conf.Dr.Ing. Sorin PATER

Candidat,
Prof.Dr.Ing. Radu TARCA