FISA STANDARDE MINIMALE CONCURS CONFERENTIAR - DOMENIUL:INGINERIE MECANICA

Candidat: Conf. Dr. ing. Florin-Alexandru COVACIU

Specificatie	Domeniul activitatilor	Indicator	Punctaj obtinut	Punctaj minim grila	**Procent realizat in raport cu punctajul minim pt. prof. [%]**	Indicatori neindepliniti
Activitatea didactica/profesionala	A.1.1	N1	2.00	2.00	**100.00**	indicator indeplinit
		N1.1	1.00	1.00	**100.00**	indicator indeplinit
		N1.3	1.00	1.00	**100.00**	indicator indeplinit
	A.1.2	N2	5.00	4.00	**125.00**	indicator indeplinit
		N.2.1	2.00	2.00	**100.00**	indicator indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	27.25	10.00	**272.48**	indicator indeplinit
		P1	8.85	6.00	**147.46**	indicator indeplinit
	A2.2	N3	19.00	10.00	**190.00**	indicator indeplinit
		N3.1	11.00	5.00	**220.00**	indicator indeplinit
	A2.4+A2.5	N4	2.00	2.00	**100.00**	indicator indeplinit
		N43	2.00	1.00	**200.00**	indicator indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	61.35	50.00	**122.70**	indicator indeplinit
	A3.2	N5	14.00	10.00	**140.00**	indicator indeplinit
	A3.3	C	216.71	25.00	**866.86**	indicator indeplinit
			373.16	113.00	**330.23**	

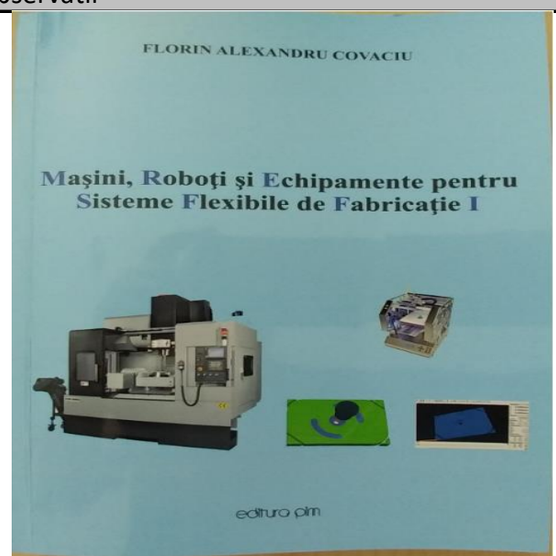
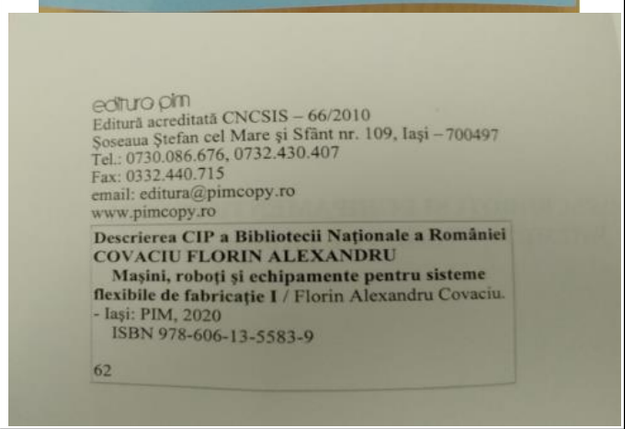
Data:
16.05.2024

Semnatura

N.1.1 **Manuale suport de curs (conf. Fisei disciplinei)**

Format tiparit/electronic (minim 100 pagini)

Prim autor

Nr. Crt	Autorii	Nr. Autori	Titlul	Editura	Anul publicarii	ISBN	Punctaj	Observatii
1	Covaciu Florin	1	Masini, Roboti si Echipamente pentru Sisteme Flexibile de Fabricatie 1, 324 pagini	PIM	2020	978-606-13-5583-9	1.00	 
	Total						1.00	

N1.2 **Manuale suport de curs (conf. Fisei disciplinei)**

coautor ***Format tiparit/electronic (minim 100 pagini)***

Nr. Crt	Autorii	Numar autori	Titlul	Editura	Anul publicarii	ISBN	Punctaj	Observatii
1		4						
	Total						0.00	

N1.3 **Manuale suport de curs (conf. Fisei disciplinei)**

Format electronic disponibil pe platforma univ/fac/dep -autor

Nr. Crt	Autorii	Adesa de site	Anul postarii	nr. Autori	punctaj
1	Covaciu Florin	https://cester.utcluj.ro/lectures/MREFFSII/Masini_Roboti_Echipamente_si_Sisteme_Flexibile_de_Fabricatie_2.pdf	2020	1	1.00
	Total				1.00

1 Masini Roboti Echipamente si Sisteme Flexibile de Fabricatie 2

N2.1 **Standuri de laborator (constructier/modernizari) certificate de directorul de departament**

Nr. Crt	Denumire stand/an constructie sau modernizare	Anul constructie/ modernizare	Punctal individual
1	Robot Delta pick and place	2018	1.00
2	Braț robotic cu 6 grade de libertare	2019	1.00
	Total		2.00

N2.2 **Indrumator laborator/carte si aplicatii format tiparit sau electronic**

autor, co-autor

Nr.crt.	Autori	Nr. Autori	Titlul	Anul editarii	ISBN	Punctaj individual
	Pisla Adrian, Covaciu Florin	2	Comanda numerica a masinilor-unelte	2016	978-606-737-134-5	1.00
	Pisla Adrian, Covaciu Florin	2	Computer numerical control	2016	978-606-737-133-8	1.00
	Covaciu Florin	1	Masini, Roboti si Echipamente pentru Sisteme Flexibile de Fabricatie II, Indrumator de Laborator	2020	978-606-13-5817-5	1.00
						0.00
	Total					3.00

N3.1 **Articole si publicatii BDI (neincluse in A2.1)**

prim autor sau autor corespondent

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum /Numar	Anul publicarii	pagini (de la .. pana la:)	Punctaj individual
1	F. Covaciu	1	ACTUATION AND CONTROL OF A SERIAL ROBOTIC ARM WITH FOUR DEGREES OF FREEDOM	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	61(3)	2018	347-356	1.00
2	F. Covaciu, A. Pisla, G. Carbone, F. Puskas, C. Vaida, D. Pisla	6	VR INTERFACE FOR COOPERATIVE ROBOTS APPLIED IN DYNAMIC ENVIRONMENTS	2018 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR)		2018	6	1.00
3	F. Covaciu	1	Control and actuation system of a six degrees of freedom robotic arm	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	62(1)	2019	99-106	1.00
4	F. Covaciu, D. Filip	2	Design and Manufacturing of A 6 Degree of Freedom Robotic Arm	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	62(1)	2019	107-114	1.00
5	F. Covaciu, A. E. Iordan	2	DESIGNING A COOLING SYSTEM FOR AN ELECTRIC MOTOR THAT IS USED IN THE AUTOMOTIVE INDUSTRY	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	63(1)	2020	61-66	1.00

6	F. Covaciu	1	DESIGNING AND MANUFACTURING A DELTA ROBOT FOR PICK AND PLACE APPLICATIONS	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	63(1)	2020	67-72	1.00
7	F. Covaciu, D. Baldean	2	Contribution to Research the Applied Engineering Protocol to Implement a Fuzzy Regulator for Autonomous Driving of an Automotive Model Implemented in Virtual Reality	SIAR International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering		2020	468-476	1.00
8	F. Covaciu, A. E. Iordan	2	DESIGNING AND BUILDING A SERIAL ROBOTIC ARM WITH FOUR DEGREES OF FREEDOM	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	62(2)	2019	317-322	1.00
9	F. Covaciu, A. Pisla, C. Vaida, B. Gherman, D. Pisla	5	Development of a Virtual Reality Simulator for a Lower Limb Rehabilitation Robot	IEEE International Conference on Automation, Quality and Testing, Robotics - THETA, AQTR 2020 - Proceedings		2020	178-183	1.00
10	F. Covaciu, B. Gherman, A. Pisla, G. Carbone, D. Pisla	5	Rehabilitation system with integrated visual stimulation	Mechanisms and Machine Science	89	2020	131-137	1.00
11	F. Covaciu, D. Filip, M. Rebreanu	3	DESIGN OF A SPEED BUMP WITH A COMPLEX OPENING SYSTEM	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	64(1)	2021	63-70	1.00
	Total							11.00

N3.2 **Articole si publicatii BDI (neincluse in A2.1)**

co-autor

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Punctaj individual
1	C. Vaida, D. Pisla, F. Covaciu, B. Gherman, A. Pisla, N. Plitea		Development of a Control System for a HEXA Parallel Robot	IEEE International Conference on Automation Quality and Testing Robotics		2016	213-218	1.00
2	C. Vaida, D. Pisla, A. Szilaghyi, F. Covaciu, D. Cocorean, N. Plitea		The Control System of a Parallel Robot for Brachytherapy	5th European Conference on Mechanism Science (EUCOMES)		2015	563-571	1.00
3	C. Vaida, N. Plitea, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, D. Pisla		Structural Analysis and Synthesis of Parallel Robots for Brachytherapy	NEW TRENDS IN MEDICAL AND SERVICE ROBOT: THEORY AND INTEGRATED APPLICATIONS Book Series: Mechanisms and Machine Science		2014	191-204	1.00
4	B. Galdau, N. Plitea, C. Vaida, F. Covaciu, D. Pisla		Design and control system of a parallel robot for brachytherapy	2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS		2014	6	1.00
5	D. Pisla, B.Galdau,F. Covaciu, C.Vaida, D. Popescu, N. Plitea		Singularity analysis and control system of an innovative medical parallel robot	23rd International Conference for Production Research		2015	1-10	1.00
6	A.E. Iordan, F. Covaciu		Efficient Method to Solve the Guarini Puzzle Generalization using Bipartite Graphs	Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering	62(1)	2019	157-162	1.00
7	D. Filip, F. Covaciu, A. Sarb, S. Timoftei		Building a project team according to the time allocated and the number of relationships for the successful completion of a project	Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering	62(1)	2019	141-148	1.00
8	A.E. Iordan, F. Covaciu		Improving Design of a Triangle Geometry Computer Application using a Creational Pattern	Acta Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering	63(1)	2020	73-78	1.00
	Total							8.00

P1.1 **Articole și publicații științifice indexate Web of Science - Thomson Reuters *, ****

Autor corespondent/Prim autor ***maxim 3 autori***

Nr. crt.	Autor corespondent=2; Prim autor=1	Nume autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum /Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Punctaj individual pt n max 3
1	1	F. Covaciu, A. Pisla, A. E. Iordan	Development of a virtual reality simulator for an intelligent robotic system used in ankle rehabilitation	Sensors	21(4)	2021	1-17	3.9	8.20
2	1	F. Covaciu, A. E. Iordan	Control of a drone in virtual reality using MEMS sensor technology and machine learning	Micromachines	13(4)	2022	1-19	3.4	7.20
3	1	F. Covaciu	DEVELOPMENT OF A VIRTUAL REALITY SIMULATOR FOR AN AUTONOMOUS VEHICLE	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65(2)	2022	155-160	0.3	1.00
4	1	F. Covaciu, L.N. Covaciu	CONTROL AND ACTUATION OF A PARALLEL ROBOT WITH THREE DEGREES OF FREEDOM	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65(1)	2022	37-42	0.3	1.00
5	1	F. Covaciu	DEVELOPMENT OF A CONTROL PROGRAM FOR DC MOTORS USING PID CONTROL AND LOW-PASS FILTER	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65(1)	2023	191-198	0.3	1.00
		Total							18.40

P1.2 **Articole și publicații științifice indexate Web of Science - Thomson Reuters *, ****

Autor corespondent/Prim autor ***mai mult de 4 autori inclusiv***

Nr. crt.	Autor corespondent =2; Prim autor= 1	Numar autori	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact	Punctaj individual	DOI	WOS
1	1	10	F. Covaciu, N. Crisan, C. Vaida, I. Andras, A. Pusca, B. Gherman, C. Radu, P. Tucan, N. Al Hajjar, D. Pisla	Integration of Virtual Reality in the Control System of an Innovative Medical Robot for Single-Incision Laparoscopic Surgery	Sensors	23(12)	2023	191-198	3.9	2.46		001017849900001
			Total							2.46		

P1.3 **Articole și publicații științifice indexate Web of Science - Thomson Reuters**

co-autor ***maxim 3 autori***

Nr.crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	L.N. Covaciu, F. Covaciu, L. Bacali	REACHING INDUSTRY 4.0 GOALS UNDER THE INFLUENCE OF SUSTAINABLE FINANCE	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	65(3)	2022	407-416	0.3	3	0.50
2	A.E. Iordan, F. Covaciu	A COMBINED NEURO-FUZZY SYSTEM TO COMMAND AN AUTONOMOUS AUTOMOBILE FROM VIRTUAL REALITY	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	66(2)	2023	223-228	0.3	2	0.50
3	A.E. Iordan, F. Covaciu	Estimation of the effort required to develop a software through the k-nearest neighbors method	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING	66(3)	2023	327-332	0.3	2	0.50
Total									1.50

P1.4

Articole și publicații științifice indexate Web of Science - Thomson Reuters

co-autor ***mai mult de 3 autori***

Nr. crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact	Numar autori	Punctaj individual	DOI	WOS
1	D. Pisla, B. Galdau, F. Covaciu, C. Vaida , D. Popescu, N. Plitea	Safety issues in the development of the experimental model for an innovative medical parallel robot used in brachytherapy	INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	55(3)	2017	684-699	9.2	6	4.70		000390785800005
2	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu	ON THE KINEMATICS OF A NEW PARALLEL ROBOT FOR BRACHYTHERAPY	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	15(4)	2014	354-361	0.3	8	0.19		000346219300006
	Total								4.89		

P2.1<4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Prim autor/autor corespondent ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				0.00

P2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Prim autor/autor corespondent ***minim 4 autori***

Nr.crt	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				0.00

P2.2>4 **Brevete indexate OSIM**

Prim autor/autor corespondent ***minim 4 autori inclusiv***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
	Total				0.00

P2.2<4 **Brevete indexate OSIM**

Prim autor/autor corespondent ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2.1<4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Co-autor ***maxim 3 autori***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2.1>4 **Brevete internationale indexate in Web of Science-Derwent Innovation**

Co-autor ***minim 4 autori inclusiv***

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
	Total				0.00

P2.2.2<4 **Brevete indexate OSIM; co-autor;**

maxim 3 autori

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0.00
					0.00
					0.00
	Total				**0.00**

P2.2.2>4 **Brevete indexate OSIM; co-autor;**

minim 4 autori

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
		Total			0.00

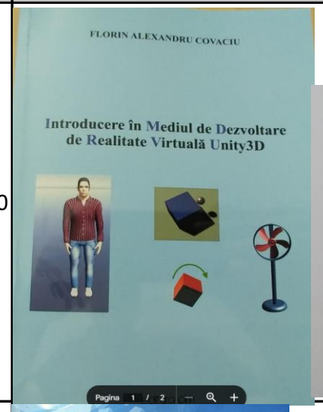
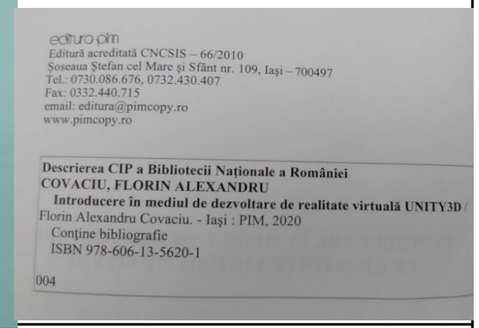
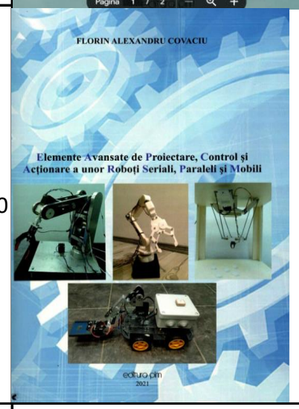
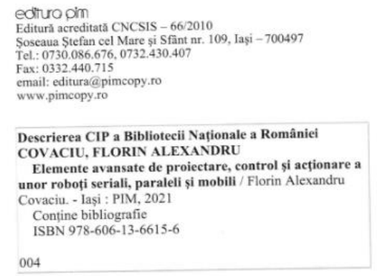
N4.1-2

Produse, tehnologii, platforme şi servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)

Nr.crt	Denumire produs	anul validarii/mod validare (procedura)	Numar contributori	Calitatea: 1 - coordonator; 2 membru in echipa	Punctaj individual	Observatii
	Total				0.00	

N4.3 **Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)**

prim autor

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual	Observatii
1	Covaciu Florin	Introducere in mediul de dezvoltare de realitate virtuala Unity3D	PIM	2020	978-606-13-5620-1	202	1.00	 
2	Covaciu Florin	Elemente Avansate de Proiectare, Control si Actionare a unor Roboti Seriali, Paraleli si Mobili	PIM	2021	978-606-13-6615-6	149	1.00	 
	Total						2.00	

N4.4 **Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.)**

co - autor

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual	Observatii
	Total						0.00	

N5 **Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat**

Nr. Crt.	Tipul activitatii: conferinta/congres=1; workshop international=2; profesor invitat=3	Denumire Congress, workshop/Institutia unde a fost invitat	Anul /perioada (pt. prof. invitat)	Titlul lucrarii sustinute in calitate de autor sau co-autor/ Prelegeri expuse pt profesor invitat	link /email/alte modalitati de justificare a activitatii	Punctaj realizat
1	1	AXVIII-a Conferinta internantionala - multidisciplinara"Profesorul Dorin Pavel - fondantorul hidroenergetecii romanesti" Cluj Napoca, 2018	2018	PROIECTAREA ȘI CONTROLUL UNUI ROBOT MOBIL DE EXPLORARE, FOLOSIND REALITATEA VIRTUALĂ CA MEDIU DE SIMULARE	https://drive.google.com/file/d/1ri_42K4R55BILph6GBZJ6estYwPA3RQ4/view	1.00
2	1	Simpozionul "Simpozionul Ştiinţific Internaţional „Realizări și perspective în ingineria agrară și transport auto”, dedicat aniversării a 85 de ani de la fondarea Universităţii Agrare de Stat din Moldova" Chișinău, Moldova, 4-5 octombrie 2018	2018	Dezvoltarea aplicativă a unei soluții de autovehicul care se conduce autonom utilizând realitatea virtuală și regulatorul FUZZY	https://drive.google.com/file/d/1nMdH8BgGdG8WHXKY_oHkEXADa93LVGrA/view	1.00
3	1	International Conference of Mechanical Engineering, ICOME 2015 Craiova, Applied Mechanics and Materials	2016	Graphical Simulation System for Functional Analysis of a Parallel Robot for Transperineal Prostate Biopsy	https://drive.google.com/file/d/1z0kpqs5uCMMEmyJrtVyppI8DJ7gm7kUI/view	1.00
4	1	International Conference of Mechanical Engineering, ICOME 2015 Craiova, Applied Mechanics and Materials	2016	Parametric modeling for analyzing diseases of the human spine	https://drive.google.com/file/d/10Y33skOSF9CjlAqXDVk0zJwlZPNdem9h/view	1.00
5	1	2nd Conference on Mechanisms, Transmissions and Applications, MeTrApp 2013; Tianjin; China; 18 October	2014	An innovative family of modular parallel robots for brachytherapy	https://drive.google.com/file/d/1pYHQ2kNlXLG1Y1KrLWeLfYhu22yEyVRj/view	1.00
6	2	Salonul internațional de inventică PRO INVENT, Diplomă de excelență și medalia de aur cu mențiune specială	2016	Familie de roboti pentru biopsia transperineala a prostatei	https://drive.google.com/file/d/1nx_cDfL-cJJRC_LVpzEo6Wv3wKYS4Uct/view	1.00

7	1	Presented at the 14th International Conference INTER-ENG 2020 Interdisciplinarity in Engineering, Mureș, Romania, 8–9 October 2020	2020	Design and Development of a Low-Cost Automated All-Terrain Intelligent Robotic Vehicle for Detection to Study Its Faults and Vulnerabilities from SWOT	https://drive.google.com/file/d/1o_pHCSA1TZwm1X05A9pWU8qnP9KbeCa/view	1.00
8	1	Presented at the 14th International Conference INTER-ENG 2020 Interdisciplinarity in Engineering, Mureș, Romania, 8–9 October 2020	2020	Developing and Researching a Robotic Arm for Public Service and Industry to Highlight and Mitigate Its Inherent Technical Vulnerabilities	https://drive.google.com/file/d/19r29jo0Diq1_73L7VeQmHGD1XJI0qMiX/view	1.00
9	1	5th International Workshop on Medical and Service Robots (MESROB), 4-8 July, Graz, Austria	2016	Test Bench for Space Remote Docking System	https://drive.google.com/file/d/1k2WDoKOFmJcvKnCJTNj7UNwHtbzt4jen/view	1.00
10	1	International Conference on Production Research - Africa, Europe and the Middle East (ICPR-AEM) / 4th International Conference on Quality and Innovation in Engineering and Management (QIEM), 25-30 July, Cluj-Napoca, Romania	2016	ALTERNATIV SOLUTIONS FOR ECONOMIC ACTUATION OF THE PARALEL KINEMATICS ROBOTS	https://drive.google.com/file/d/1ElMWQ6N6hA4dZl7yPLyLRTTyO3xS5Qpg/view	1.00
11	1	MeTrApp 2023, the 6th IFToMM International Conference on Mechanisms, Transmissions, and Applications, is organized by the University of Poitiers, France, May 24-26	2023	Development of a Virtual Reality Simulator for Robotic Assisted Surgery	https://drive.google.com/file/d/16qUaVB6Yv46x78w6DfSfeoySVtcw0jSG/view	1.00
12	1	International Conference "INTER-ENG 2023", U.M.F.S.T. Târgu Mureş, Romania, 5 - 6 October 2023	2023	Testing the Quality of Filtered Drinking Water and Developing Technical Solutions to Improve It	https://drive.google.com/file/d/1RTYSTaKmbbYdPywnIrdb-Dhg_dQDLHo4/view	1.00
13	1	The 33rd International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2024, June 5-7, 2024, in Cluj-Napoca, Romania.	2024	Positioning of a Surgical Parallel Robot Using Artificial Intelligence	https://link.springer.com/chapter/10.1007/978-3-031-59257-7_9	1.00
14	1	IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2024, May 16-18, 2024, Cluj-Napoca, Romania	2024	Development of a Virtual Reality Simulator for a Robotic-Assisted Laparoscopic Surgery	https://www.aqtr.ro/program/aqtr_2024_program.pdf	1.00
						0.00
	Total					14.00

S **Atragere resurse financiare prin granturi/proiecte/contracte terți**

Nr.crt	Calitatea: director = 1, membru in echipa = 2	Tip proiect *	Titlul proiectului	Perioada de derulare	Valoare totala UTCN** [ech. Euro]	Valoarea alocata membrului in echipa de catre directorul de proiect*** [ech. Euro]	Punctaj individual
1	2	Cod proiect: PN-II-PT-PCCA-2011-3.2-0414, Numar proiect: 173 / 2012	CHANCE - Brahiterapia asistata robotic, o abordare inovativa in terapia cancerelor inoperabile, Proiect national de tip PCCA TIP 2, finantat de Unitatea Executiva pentru Finantarea Invatamantului Superior, a Cercetarii, Dezvoltarii si Inovarii (UEFISCDI)	2012-2015	603,733	23,919	23.92
2	2	12546/31.05.2012	SIMCOSURG -Tehnici de simulare și control pentru roboți folosiți în chirurgie minim invazivă", Cooperare bilaterala Slovenia-Romania	2011-2013	200,000	3500	3.50
3	2	Cod proiect: ID P_37_215 Cod MySMIS 2014: 103415	AgeWell - Dezvoltarea inovativă a unor sisteme robotice pentru reabilitare și asistare în îmbătrânirea sănătoasă, Proiect Cofinanțat prin Fondul European de Dezvoltare Regională	2016-2020	1610000	7400	7.40
4	2	Cod proiect: PCE171/2021 - Challenge within PNCDI III	Challenge - Noi frontiere in chirurgia uniport asistata robotic: Un sistem robotic inovativ cu instrumente cu dexteritate marita.	2022-2023	160770	21159	21.159
5	2	iect: A2 9034/2022(1PSC	Proiect de cercetare-dezvoltare din planul sectorial al MApN cu titlu „Sistem tip exoschelet pentru augmentare umană".	2022-2023	360000.00	1374	1.37
6	2	Cod proiect: PNRR-III-C9-2022 - I8 - 760072/23.05.2023	ATHENA - Noi soluții robotice inteligente și adaptive pentru chirurgia personalizată minim invazivă în tratamentul cancerului	2022-2024	1408769	2000	2.00
7	2	Cod proiect: PNRR-III-C9-2022 - I8 - 760071/23.05.2024	ASKLEPIOS - Noi frontiere în robotica modulară adaptivă pentru reabilitarea medicală centrată pe pacient	2022-2024	1408769	2000	2.00
			Total				61.35

C **Citări în publicații BDI (WOS si Scopus)**

Nota: se exclud autocitarile

Nu se considera autocitare articolul in care apar autori din articolul citat, dar lipseste declarantul (persoana care completeaza Fisa de evaluare)

Nr.Crt.	Date de identificare complete ale articolul citat (se exclud autocitarile)***	Articolul care citeaza: Autori, revista, nr. pagini, ISSN	Anul in care a fost citata lucrarea	Articolul care citeaza: Titlul	Factorul de impact al publicației WOS în care apare	Punctaj individual
	C. Vaida, N. Plitea, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, D. Pisla, Structural analysis and synthesis of parallel robots for brachytherapy, NEW TRENDS IN MEDICAL AND SERVICE ROBOT: THEORY AND INTEGRATED APPLICATIONS Book Series: Mechanisms and Machine Science, 2014, pp. 191-204, ISSN/ISBN: 978-3-319-01591-0					
1		N. Plitea, A. Szilaghyi, D. Pisla, Robotics and Computer-Integrated Manufacturing, pp. 70-80, 0736-5845	2015	Kinematic analysis of a new 5-DOF modular parallel robot for brachytherapy	5.057	6.06
2		D. Pisla, D. Cocorean, C. Vaida, B. Gherman, A. Pisla, N. Plitea, ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE VOL 5B, pp. 7, 978-0-7918-4637-7	2014	APPLICATION ORIENTED DESIGN AND SIMULATION OF AN INNOVATIVE PARALLEL ROBOT FOR BRACHYTHERAPY	0	1.00
3		C. Vaida, I. Birlescu, A. Pisla, G. Carbone, N. Plitea, I. Ulinici, B. Gherman, F. Puskas, P. Tucan, D. Pisla, Mechanisms and Machine Science, pp. 293-302, 2211-0984	2019	RAISE - An Innovative Parallel Robotic System for Lower Limb Rehabilitation	0	1.00
4		D. Pisla, N. Plitea, B. Galdau, C. Vaida, B. Gherman, 2nd Workshop on New Trends in Medical and Service Robotics (MeSRoB), pp. 63-77, 2211-0984	2014	Innovative Approaches Regarding Robots for Brachytherapy	0	1.00
5		B. Gherman, N. Plitea, B. Galdau, C. Vaida, D. Pisla, ADVANCES IN ROBOT KINEMATICS, pp. 475-483, 978-3-319-06698-1	2014	On the Kinematics of an Innovative Parallel Robot for Brachytherapy	0	1.00
6		B. Gherman, N. Plitea, D. Pisla, International Federation for the Promotion of Mechanism and Machine Science, IFToMM 2016, Mechanisms and Machine ScienceVolume 43, pp. 421-429, 978-331944155-9	2017	An innovative parallel robotic system for transperineal prostate biopsy	0	1.00
7		P. Kulkarni, S. Sikander, P. Biswas, S. Frawley, S. Song, Annals of Biomedical Engineering, pp. 2489-2513, 906964	2019	Review of Robotic Needle Guide Systems for Percutaneous Intervention	0	1.00
8		B. Li,Y. Zhang ,L. Yuan, X. Xi, Electronics, 1-23, 2079-9292	2020	Study on the Low Velocity Stability of a Prostate Seed Implantation Robot's Rotatory Joint	2.412	3.41
9		D. Cocorean, N. Plitea, C. Vaida, D. Pisla, 2015 IFToMM World Congress Proceedings, IFToMM 2015, pp. 1-10, 1687-8132	2015	Kinematic behaviour of 2-CRR-CYL-U parallel robot for brachytherapy		1.00
10		Y. Zhang, Y. Liang, X. Wang, Y. Xu, ADVANCES IN MECHANICAL ENGINEERING, pp. 1-10, 1687-8132	2015	Design and experimental study of joint torque balance mechanism of seed implantation articulated robot	1.161	2.16
11		P. Tucan, C. Vaida, G. Carbone, A. Pisla, F. Puskas, B. Gherman, D. Pisla Mechanisms and Machine Science, pp. 2751-2760, 22110984	2019	A kinematic model and dynamic simulation of a parallel robotic structure for lower limb rehabilitation	0	1.00
12		C. Vaida, I Birlescu, A. Pisla, I.M. Ulinici, D. Tarnita, G. Carbone, D. Pisla, IEEE ACCESS, pp. 34522-34537, 2169-3536	2020	Systematic Design of a Parallel Robotic System for Lower Limb Rehabilitation	3.745	4.75
13		D. Pisla, D. Tarnita, P. Tucan, N. Tohanean, C. Vaida, I.D. Geonea, G. Bogdan, C. Abrudan, G. Carbone, N. Plitea, APPLIED SCIENCES-BASEL, pp. 1-17, 2076-3417	2021	A Parallel Robot with Torque Monitoring for Brachial Monoparesis Rehabilitation Tasks	2.838	3.84
14		D. Pisla, I. Nadas, P. Tucan, S. Albert, G. Carbone, T. Antal, A. Banica, B. Gherman, ACTUATORS, 1-20, 2076-0825	2021	Development of a Control System and Functional Validation of a Parallel Robot for Lower Limb Rehabilitation	2.523	3.52

15		B. Gherman, A. Caprariu, F. Puskas, A. Pisla, T. Antal, D. Pisla, International Conference on System Theory Control and Computing, pp. 553-558, 2372-1618	2021	Evaluation and selection of a collaborative robot for a tuberculosis sample collection isolated booth	0	1.00
16		I. Birlescu, F. Graur, C. Vaida, C. Radu, P. Tucan, B. Gherman, A.Pisla, N. Al Hajar, D. Pisla, INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB 2021), 9TH EDITION, pp. 1-6, 2575-5137	2021	Experimental Testing and Implementation of a Force - Torque Sensor in Automated Percutaneous Needle Insertion Instruments	0	1.00
17		I.M. Ulinici, N. Crisan, C. Vaida, I. Andras, D. Pisla, IEEE International Conference on Automation Quality and Testing Robotics, pp. 132-137, 1844-7872	2022	Analysis and Preliminary Design of a New Parallel Robot for SILS	0	1.00
18		A. Caprariu, N. Al Hajjar, C. Vaida, F. Graur, A. Pisla, E. Mois, P. Tucan, C. Radu, I. Birlescu, D. Pisla, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, pp. 45-56, 1221-5872	2022	A FUNCTIONAL DESIGN ANALYSIS FOR A ROBOTIC GUIDED INSTRUMENT USED IN RADIOFREQUENCY ABLATION	0.07	1.07
19		T.A. Antal, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, pp. 11-16, 1221-5873	2022	THE CAVEAT OF OBJECT ORIENTED PROGRAMMING IN JAVA	0.07	1.07
20		B. Gherman, P. Tucan, C. Vaida, N. Crisan, G. Rus, I. Birlescu, D. Pisla, Mechanisms and Machine Science, pp. 383 - 391, 2211-0984	2022	On the Kinematics and Dimensional Optimization of a Robotic System for Single Incision Laparoscopic Surgery	0	1.00
	N. Plitea, D. Pisla, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, On the kinematics of a new parallel robot for brachytherapy, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, 2014, pp. 354-361, ISSN/ISBN: 1454-9069					
1		C. Vaida, D. Pisla, J. Schadlbauer, M. Husty, N. Plitea, New Trends in Medical and Service Robots, 4th International Workshop on Medical and Service Robots (MESROB 2016), Nantes, FRANCE, pp. 85-99, 78-3-319-30674-2	2016	Kinematic Analysis of an Innovative Medical Parallel Robot Using Study Parameters	0	1.00
2		C. Vaida, D. Pisla , P. Tucan, B. Gherman, C. Govor, N. Plitea, Proceedings of the 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, IFToMM 2015, pp. 483 - 490, 978-986046098-8	2015	An Innovative Parallel Robotic Structure Designed for Transperineal Prostate Biopsy	0	1.00
3		D. Tarnita, D. B. Marghitu, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, pp. 353-360, 1454-9069	2017	Nonlinear Dynamics of Normal and Osteoarthritic Human Knee	1.294	2.29
4		D. Tarnita, M. Georgescu, D. N. Tarnita, New Trends in Medical and Service Robots: Human Centered Analysis, Control and Design, 4th International Workshop on Medical and Service Robots (MESROB), pp. 59-73, 978-3-319-30674-2	2015	Application of Nonlinear Dynamics to Human Knee Movement on Plane and Inclined Treadmill	0	1.00
5		D. I. Geonea, D. Tarnita, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 978-1-5386-2205-6	2018	Motion Assistance with an Exoskeleton for Stair Climb	0	1.00
6		N. Plitea, B. Gherman, D. Cocorean, C. Vaida, D. Pisla, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, pp. 55-63, 1454-9069	2017	Inverse Dynamic Modelling of a Parallel Robotic System for Brachytherapy	1.294	2.29
7		B. Gherman, D. Pisla, C. Vaida, N. Plitea, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, pp. 344-351, 1454-9069	2016	On Workspace and Accuracy Evaluation of a Parallel Robot for Needle Placement Procedures	1.294	2.29
8		B. Gherman, D. Pisla, G. Kacso, N. Plitea, Advances in Robot Design and Intelligent Control, 24th International Conference on Robotics in Alpe-Adria-Danube Region, pp. 329-338, 978-3-319-21290-6	2016	Kinematic Behaviour of a Novel Medical Parallel Robot for Needle Placement	0	1.00
9		I. Birlescu, M. Husty, C. Vaida, B. Gherman, P. Tucan, D. Pisla, Mathematics, pp. 23, 2227-7390	2020	Joint-Space Characterization of a Medical Parallel Robot Based on a Dual Quaternion Representation of SE(3)	1.747	2.75

10		D. Tarnita, D. Pisla, I. Geonea, C. Vaida, M. Catana, D.N. Tarnita, Journal of Bionic Engineering, pp. 514-525, 1672-6529	2019	Static and Dynamic Analysis of Osteoarthritic and Orthotic Human Knee	2.222	3.22
	D. Pîslă, P. Tucan, B. Gherman, N. Crișan, N. Plitea, F. Covaciu, Graphical Simulation System for Functional Analysis of a Parallel Robot for Transperineal Prostate Biopsy, Applied Mechanics and Materials, 2016, pp. 101-106, ISSN/ISBN: 1662-7482					
1		C. Vaida, I. Birlescu, N. Plitea, N. Crisan, D. Pisla,New Trends in Medical and Service Robots: Design, Analysis and Control, 5th International Workshop on Medical and Service Robots , pp. 1-15, 978-3-319-59972-4	2018	Design of a Needle Insertion Module for Robotic Assisted Transperineal Prostate Biopsy	0	1.00
2		P. Tucan, F. Craciun, C. Vaida, B. Gherman, D. Pisla, C. Radu, N. Crisan, 21st International Conference on Control Systems and Computer Science, pp. 76-83, 978-1-5386-1839-4	2017	Development of a control system for an innovative parallel robot used in prostate biopsy	0	1.00
3		D. Pisla, D. Ani, C. Vaida, B. Gherman, P. Tucan, N. Plitea, IEEE International Conference on Automation, Quality and Testing, Robotics, pp. 157-162, 978-1-4673-8690-6	2016	BIO-PROS-2: an innovative parallel robotic structure for transperineal prostate biopsy	0	1.00
4		D. Pisla, M. Huta, C. Vaida, G. Batin, C. Popa, F. Graur, I. Birlescu, C. Feniser, N. Plitea, International Conference on Production Research - Africa, Europe and the Middle East (ICPR-AEM) / 4th International Conference on Quality and Innovation in Engineering and Management (QIEM), pp. 149-156, 978-606-737-180-2	2016	Development of an Innovative Needle Insertion Module Used in Transperineal Robotic-Assisted Biopsy	0	1.00
	C. Vaida, D. Pisla, F. Covaciu, B. Gherman, A. Pisla, N. Plitea, Development of a control system for a HEXA parallel robot, IEEE International Conference on Automation, Quality and Testing, Robotics, 2016, pp. 1-6, ISSN/ISBN: 978-1-4673-8690-6					
1		G. Valente, V. Muttillo, M. Muttillo, G. Barile, A. Leoni, W. Tiberti, L. Pomante, Energies, pp. 1-13, 1996-1073	2019	SPOFSlave Powerlink on FPGA for Smart Sensors and Actuators Interfacing for Industry 4.0 Applications	2.702	3.70
2		B. P. Huynh, C. W. Wu, Y. L., Kuo, IEEE Access, pp. 72329-72342, 2169-3536	2019	Force/Position Hybrid Control for a Hexa Robot Using Gradient Descent Iterative Learning Control Algorithm	3.745	4.75
3		R. Qin, Y. Zhu, S. Zhou, Y. Hu, International Conference on Robotics, Control and Automation Engineering, RCAE 2019 / International Conference on Advanced Mechanical and Electrical Engineering, AMEE 2019, pp. 23-29, 978-145037622-8	2019	Modeling and movement analysis of a parallel torso for a quadruped robot	0	1.00
4		C. Valencia, J. Angie, D.A. Nunez, International Journal of Mechanical Engineering and Robotics Research, pp. 748 - 752, 2278-0149	2019	Inverse and direct kinematics of hexa parallel robot of six degrees of freedom	0	1.00
5		K.S. Sooraj, M.J.Thomas, A.P. Sudheer, M.L. Joy, International Journal of Innovative Technology and Exploring Engineering, pp. 911 - 916, 2278-3075	2019	Kinematics, structural analysis and control of 3-ppss parallel manipulator	0	1.00
	N. Plitea, C. Vaida, B. Gherman, A. Szilaghyi, B. Galdau, D. Cocorean, F. Covaciu, D. Pisla, An innovative family of modular parallel robots for brachytherapy, 11th IFToMM International Symposium on Science of Mechanisms and Machines, 2014, pp. 69-79, ISSN/ISBN: 978-3-319-01844-7					
1		N. Plitea, A. Szilaghyi, D. Pisla, Robotics and Computer-Integrated Manufacturing, pp. 70-80, 0736-5845	2015	Kinematic analysis of a new 5-DOF modular parallel robot for brachytherapy	5.057	6.06
2		D. Pisla, D. Cocorean, C. Vaida, B. Gherman, A. Pisla, N. Plitea, ASME Design Engineering Technical Conferences and Computers and Information in Engineering Conference, pp. 1-10, 978-0-7918-4637-7	2014	Application Oriented Design and Simulation of an Innovative Parallel Robot for Brachytherapy	0	1.00

3		D. Cocorean, N. Plitea, C. Vaida, D. Pisla, 14th International Federation for the Promotion of Mechanism and Machine Science World Congress, pp. 238 - 245, 978-986046098-8	2015	Kinematic behaviour of 2-CRR-CYL-U parallel robot for brachytherapy	0	1.00
	B. Galdău, N. Plitea, C. Vaida, F. Covaciu, D. Pîslă, Design and control system of a parallel robot for brachytherapy, IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-6, ISSN/ISBN: 978-1-4799-3732-5					
1		P. Tucan, F. Craciun, C. Vaida, B. Gherman, D. Pisla, C. Radu, N. Crisan, 21st International Conference on Control Systems and Computer Science, pp. 76-83, 978-1-5386-1839-4	2017	Development of a control system for an innovative parallel robot used in prostate biopsy	0	1.00
2		M. Sato, Y. Saito, T. Takayama, T. Omata, H. Watanabe, R. Yoshimura, M. Miura, ROBOMECH Journal, pp. 1-10, 2197-4225	2017	Remote radioactive seed-loading device for permanent brachytherapy of oral cancer with Au-198 grains	0	1.00
	F. Covaciu, Actuation and control of a serial robotic arm with four degrees of freedom, ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, 2018, pp. 347-356, 1221 – 5872					
1		T. Babanatsas, R. M. Babanatis-Merce, D. O. Glavan, A. Komjaty, ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, pp. 187-192, 1221 – 5872	2019	Experimental Study on Decreasing the Damage to the Olive Tree during Mechanized Harvesting	0	1.00
2		A. D. Albus, M. Arghir, ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, pp. 343-350, 1221-5872	2019	Experimental Study on the Equilibrium and Stability of a Sportif on the Mobil Platform	0	1.00
	D. Pisla, B. Galdau, F. Covaciu, C. Vaida, D. Popescu, N. Plitea , Safety issues in the development of the experimental model for an innovative medical parallel robot used in brachytherapy , International Journal of Production Research , 2017 , pp. 684-699 , ISSN/ISBN: 0020-7543					
1		C. Vaida, P. Tucan, N. Plitea, V. Lazar, N. Al Hajjar, D. Pisla , Mechanisms and Machine Science , pp. 719-728 , 2211-0984	2019	Kinematic analysis of a new parallel robotic system for minimally invasive therapy of non-resecable hepatic tumors	0	1.00
2		D. Pisla, C. Vaida, I. Birlescu, N. Al Haijar, B. Gherman, C. Radu, N. Plitea , Applied Sciences , pp. 1-22 , 2076-3417	2019	Risk Management for the Reliability of Robotic Assisted Treatment of Non-resectable Liver Tumors	2.474	3.47
3		C. Vaida, N. Plitea, N. Al Hajjar, A. Burz, F. Graur, B. Gherman, D. Pisla , PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE , pp. 273-280 , 1454-9069	2020	A NEW ROBOTIC SYSTEM FOR MINIMALLY INVASIVE TREATMENT OF LIVER TUMOURS	1.523	2.52
4		P. Tucan, N. Plitea, B. Gherman, N. Al Hajjar, C. Radu, C. Vaida, D. Pisla , CISM International Centre for Mechanical Sciences , pp. 154-161 , 2541971	2021	Experimental Study Regarding Needle Deflection in Robotic Assisted Brachytherapy of Hepatocellular Carcinoma	0	1.00
5		C. Moldovan, C. Cosma, NL. Milodin, C. Teusan, P. Berce, N. Balc , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 141-152 , 1221 – 5872	2021	FINITE ELEMENT ANALYSES OF 3D PRINTED COMPOSITE ROBOT COMPONENT	0.07	1.07
6		A. Caprariu, N. Al Hajjar, C. Vaida, F. Graur, A. Pisla, E. Mois, P. Tucan, C. Radu, I. Birlescu, D. Pisla , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 141-153 , 1222 – 5872	2022	A FUNCTIONAL DESIGN ANALYSIS FOR A ROBOTIC GUIDED INSTRUMENT USED IN RADIOFREQUENCY ABLATION	0.07	1.07
7		Z. Liu, S. Wang, F. Feng, L. Xie , JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS , pp. 1-18 , 0921-0296	2022	A Magnetorheological Fluid Based Force Feedback Master Robot for Vascular Interventional Surgery	3.129	4.13
8		P. Tucan, C. Vaida, D. Horvath, A. Caprariu, A. Burz, B. Gherman, S. Iakab, D. Pisla , CANCERS , pp. 1-21 , 2072-6694	2022	Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors	6.575	7.58

	F. Covaciu , Control and actuation system of a six degrees of freedom robotic arm , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , 2019 , pp. 99-106 , ISSN/ISBN: 1221-5872					
1		A. I. Borzan, D. L. Baldean , IOP Conference Series: Materials Science and Engineering , pp. 7 , 1757-8981	2019	Experimental design for Diesel supply control in order to improve fuel efficiency	0	1.00
2		A. I. Borzan, D. L. Băldean , Procedia Manufacturing , pp. 914-921 , 2351-9789	2020	The Development of a New Interface for Intelligent Control of Energy Supply in Dynamic Environment with Process Digitization	0	1.00
	F. Covaciu, A. Pisla, G. Carbone, F. Puskas, C. Vaida, D. Pisla , VR interface for cooperative robots applied in dynamic environments , IEEE International Conference on Automation, Quality and Testing, Robotics , 2018 , pp. 1-6 , ISSN/ISBN: 978-1-5386-2205-6					
1		S. Nahavandi, L. Wei, J. Mullins, M. Fielding, S. Deshpande, M. Watson, S. Korany, D. Nahavandi, I. Hettiarachchi, Z. Najdovski, R. Jones, A. Mullins, A. Carter , Advances in Intelligent Systems and Computing , pp. 11-21 , 978-303022870-5	2019	Haptically-Enabled VR-Based Immersive Fire Fighting Training Simulator	0	1.00
2		V. Kuts, T. Otto, T. Tähemaa, Y. Bondarenko , Journal of Machine Engineering , pp. 128-144 , 18957595	2019	Digital twin based synchronised control and simulation of the industrial robotic cell using virtual reality	0	1.00
3		S.C. Sekaran, H.J. Yap, S.N. Musa, K.E. Liew, C.H. Tan, A. Aman , INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY , pp. 1-18 , 0268-3768	2021	The implementation of virtual reality in digital factory-a comprehensive review	3.226	4.23
4		J. Anczarski, A. Bochen, M. Głąb, M. Jachowicz, J. Caban, R. Cechowicz , Applied Computer Science , pp. 37 - 44 , 2353-6977	2022	A METHOD OF VERIFYING THE ROBOT'S TRAJECTORY FOR GOALS WITH A SHARED WORKSPACE	0	1.00
	C. Vaida, P. Tucan, D. Pislă, F. Covaciu , Parametric modeling for analyzing diseases of the human spine , Applied Mechanics and Materials , 2016 , pp. 131-136 , ISSN/ISBN: 1662-7482					
1		P. Tucan, C. Vaida, S. Butnariu, D. Pisla, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , pp. 419-424 , 1221-5872	2016	PRIORITIZATION OF TECHNICAL CHARACTERISTICS OF A SPINE POSTURE MONITORING DEVICE	0	1.00
	F. Covaciu, D. Filip , Design and Manufacturing of A 6 Degree of Freedom Robotic Arm , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , 2019 , pp. 107-114 , ISSN/ISBN: 1221-5872					
1		C. del Toro, C. Robles-Algarín, O. Rodríguez-Álvarez , Electronics , pp. 1-5 , 2079-9292	2019	Design and Construction of a Cost-Effective Didactic Robotic Arm for Playing Chess, Using an Artificial Vision System	2.412	3.41
2		P. Michalik, V. Molnar, G. Fedorko, B. Stehlikova, P. Tirpak, J. Macej , APPLIED SCIENCES-BASEL , pp. 1-23 , 2076-3417	2021	Research on the Influence of Production Technologies on the Positioning Accuracy of a Robotic Arm for Low-Handling Weights	2.838	3.84
	D.L. Baldean, F. Covaciu , Robotic Art in Creation and Development of Innovative Shapes and Programs for Automated Driven Cars with Artificial Intelligence , Journal for Social Media Inquiry , 2020 , pp. 22-39 , ISSN/ISBN: 2559-7639					
1		Y. Gong , Ecological Informatics , pp. 1-9 , 1574-9541	2021	Application of virtual reality teaching method and artificial intelligence technology in digital media art creation	4.498	5.50

	A.E. Iordan, F. Covaciu , IMPROVING DESIGN OF A TRIANGLE GEOMETRY COMPUTER APPLICATION USING A CREATIONAL PATTERN , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , 2020 , pp. 73-78 , ISSN/ISBN: 1221-5872					
1		P. Bec, A.I. Borzan, M. Frunză, D.L. Băldean, I. Berindei , IOP Conference Series: Materials Science and Engineering , pp. 1-5 , 17578981	2020	Study of Vulnerabilities in Designing and Using Automated Vehicles based on SWOT method for Chevrolet Camaro	0	1.00
2		A.E. Iordan , Mathematics , pp. 1-22 , 2227-7390	2024	An Optimized LSTM Neural Network for Accurate Estimation of Software Development Effort	2.4	3.40
	F. Covaciu, D.L. Baldean , Contribution to Research the Applied Engineering Protocol to Implement a Fuzzy Regulator for Autonomous Driving of an Automotive Model Implemented in Virtual Reality , 30th Siar International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering , 2020 , pp. 468-476 , ISSN/ISBN: 978-3-030-32564-0					
1		P. Bec, A.I. Borzan, M. Frunză, D.L. Băldean, I. Berindei , IOP Conference Series: Materials Science and Engineering , pp. 1-5 , 17578981	2020	Study of Vulnerabilities in Designing and Using Automated Vehicles based on SWOT method for Chevrolet Camaro	0	1.00
2		D.L. Baldean, L. Andrei, T. Oniga, V. Chindea, A.I. Borzan , INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING , pp. 730-745 , 2367-3370	2022	Virtual Modeling of an Electro-mechanical Powertrain and Steering System with Optical Proximity Sensors for Driverless Ambulance Vehicles in Unity 5	0	1.00
3		D.L. Baldean, L. Andrei, V. Chindea , INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING , pp. 591-602 , 2367-3370	2022	Designing and Development of an Intelligent Energy Supply and Powertrain Systems for Automotive Sector to Reduce Pollution and Health Risk	0	1.00
	D.Filip, F. Covaciu, S. Anca, S. Timoftei , Building a project team according to the time allocated and the number of relationships for the successful completion of a project , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , 2019 , pp. 141-148 , ISSN/ISBN: 1221-5872					
1		O. H. Negulescu, E. Doval , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 99-108 , 1221 – 5872	2021	Ergonomics and time management in remote working from home	0.07	1.07
2		M. Bogdan, C.A. Dobocan , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 359-364 , 1222 – 5872	2022	INCREASING THE PRODUCTIVITY OF AN ENTERPRISE BY EFFICIENTLY MANAGING THE POTENTIAL RISKS THAT OCCUR IN THE MANUFACTURING PROCESS	0.07	1.07
	F. Covaciu, A.E. Iordan , Designing and building a serial robotic arm with four degrees of freedom , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , 2019 , pp. 317-322 , ISSN/ISBN: 1221-5872					
1		A. Firu, A. Țapîrdea, O. Chivu, A.I. Feier, G. Draghici , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 109-116 , 1221 – 5872	2021	The competences required by the new technologies in industry 4.0 and the development of employees' skills	0	1.00
2		K. Manisha, SK. Ananya, D. Geervani, KS. Sanihith, G. Swetha , Proceedings of the Annual International Conference on Control Automation and Robotics ICCAR , pp. 25-29 , 2251-2446	2023	Robotic Arm for Unfastening Screws in Automated Disassembly Process	0	1.00

	F. Covaciu, A. Pisla, C. Vaida, B. Gherman, D. Pisla , Development of a Virtual Reality Simulator for a Lower Limb Rehabilitation Robot , IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) , 2020 , pp. 1-6 , ISSN/ISBN: 978-1-7281-7167-8					
1		R. Comes, C. Neamtu, A. Grajdeanu, S. Bodi , ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING , pp. 55-62 , 1221 – 5872	2021	VIRTUAL REALITY TRAINING SYSTEM BASED ON 3D SCANNED AUTOMOTIVE PARTS	0	1.00
2		M. Sahu, R. Gupta, R.K. Ambasta, P. Kumar , Internet of Things , pp. 1-25 , 2543-1536	2024	IoT-driven augmented reality and virtual reality systems in neurological sciences	5.9	6.90
	F. Covaciu, A. Pisla, A.E. Iordan , Development of a Virtual Reality Simulator for an Intelligent Robotic System Used in Ankle Rehabilitation , SENSORS , 2021 , pp. 1-17 , ISSN/ISBN: 1424-8220					
1		C.H. Guzman-Valdivia, O. Madrigal-Lopez, O. Desiga-Orenday, J. Talavera-Otero, J.A. Brizuela-Mendoza, C.A. Chavez-Olivares, O. Cruz-Dominguez, A. Blanco-Ortega, J.A. Berumen-Torres, F.A. Gomez-Becerra , MACHINES , pp. 1-18 , 2075-1702	2021	Design, Development and Control of a Therapeutic Robot Incorporating Aquatic Therapy for Ankle Rehabilitation	2.899	3.90
2		A.E. Iordan , RECENT CHALLENGES IN INTELLIGENT INFORMATION AND DATABASE SYSTEMS, ACIIDS 2022 , pp. 189-200 , 1865-0929	2022	Supervised Learning Use to Acquire Knowledge from 2D Analytic Geometry Problems	0	1.00
3		F. Chiacchio, D. D'Urso, L.M. Oliveri, A. Spitaleri, C. Spampinato, D. Giordano , APPLIED SCIENCES-BASEL , pp. 1-23 , 2076-3417	2022	A Non-Fungible Token Solution for the Track and Trace of Pharmaceutical Supply Chain	2.838	3.84
4		C.L. Toledo-Peral, G. Vega-Martinez, J.A. Mercado-Gutierrez, G. Rodriguez-Reyes, A. Vera-Hernandez, L. Leija-Salas, J. Gutierrez-Martinez , ELECTRONICS , pp. 1-22 , 2079-9292	2022	Virtual/Augmented Reality for Rehabilitation Applications Using Electromyography as Control/Biofeedback: Systematic Literature Review	2.69	3.69
5		A. Syamlan, Fathurachman, K. Denis, E. Vander Poorten, B. Pramujati, T. Tjahjowidodo , VIRTUAL REALITY , pp. 1795-1825 , 1359-4338	2022	Haptic/virtual reality orthopedic surgical simulators: a literature review	4.2	5.20
6		R. Yamamoto, S. Sasaki, W. Kuwahara, M. Kawakami, F. Kaneko , JOURNAL OF NEUROENGINEERING AND REHABILITATION , pp. 1-18 , 1743-0003	2022	Effect of exoskeleton-assisted Body Weight-Supported Treadmill Training on gait function for patients with chronic stroke: a scoping review	5.208	6.21
7		K. Wang , Lecture Notes in Electrical Engineering , pp. 1029 - 1038 , 18761100	2021	Virtual System for Restoration of Ancient Architecture Heritage Based on Remote Communication Technology	0	1.00
8		Al. Shammari et al. , Journal of Intelligent & Fuzzy Systems , pp. 8773-8783 , 1064-1246	2023	Post-stroke rehabilitation optimization & recommendation framework using tele-robotic ecosystem: Industry 4.0 readiness approach	2	3.00
9		Kusumastuti, W..l Islamiyah, D. Risqiwati , International Journal on Advanced Science, Engineering and Information Technology , pp. 666 - 673 , 2088-5334	2023	EEG Time-Frequency Domain Analysis for Describing Healthy Subjects and Stroke Patients during Stroke Rehabilitation Motion	0	1.00
10		A.E. Iordan , Mathematics , pp. 1-22 , 2227-7390	2024	An Optimized LSTM Neural Network for Accurate Estimation of Software Development Effort	2.4	3.40
11		C.R. Somocurcio, A. Sasieta , 2023 15th IEEE International Conference on Industry Applications, INDUSCON 2023 - Proceedings , pp. 1678 - 1684 , 979-	2023	Lower Limb Exoskeletons and Virtual Reality for Rehabilitation: A Technological Review	0	1.00
12		XH. Li, DF. Fan, Y. Deng, Y. Lei, O. Omalley , ROBOTIC INTELLIGENCE AND AUTOMATION , pp. 1-25 , 2754-6969	2024	Sensor fusion-based virtual reality for enhanced p hysical training	0	1.00
	F. Covaciu, D. Filip, M. Rebreanu , DESIGN OF A SPEED BUMP WITH A COMPLEX OPENING SYSTEM , ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , 2021 , pp. 63-70 , ISSN/ISBN: 1221-5872					
1		NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , pp. 359-364 , 1221-5872	2022	INCREASING THE PRODUCTIVITY OF AN ENTERPRISE BY EFFICIENTLY MANAGING THE POTENTIAL	0.07	1.07

	F. Covaciu, A.E. Iordan , Control of a Drone in Virtual Reality Using MEMS Sensor Technology and Machine Learning , MICROMACHINES , 2022 , pp. 1-19 , ISSN/ISBN: 2072-666X					
1		A.E. Iordan , RECENT CHALLENGES IN INTELLIGENT INFORMATION AND DATABASE SYSTEMS, ACIIDS 2022 , pp. 189-200 , 1865-0929	2022	Supervised Learning Use to Acquire Knowledge from 2D Analytic Geometry Problems	0	1.00
2		C.D. Xing, X.N. Wang, Z.S. Wang, Y.C. Wang, C. Li , MICROMACHINES , pp. 1-15 , 2072-666X	2022	Stability Boundary and Enhanced Solution of Dual-Mode Based Micro Gyroscope Mode Matching Technology	3.523	4.52
3		J.A. Cardenas, U.E. Carrero, E.C. Camacho, J.M. Calderon , MACHINES , pp. 1-31 , 2075-1702	2023	Intelligent Position Controller for Unmanned Aerial Vehicles (UAV) Based on Supervised Deep Learning	2.6	3.60
4		D. Lee, H. Kim, H. Yoon, W. Lee , Drones , pp. 1-11 , 2504-446X	2023	Usability Comparison between 2D and 3D Control Methods for the Operation of Hovering Objects	4.8	5.80
5		L.J. Kuang, J. Zhou, Y.H. Guo, H.G. Duan, Y.Q. Fu , PHYSICA SCRIPTA , pp. 1-10 , 0031-8949	2023	Versatile and effective design platform for surface acoustic wave accelerometers	2.9	3.90
6		S. Kockár, K. Hollá, A. Dadová, J. Gana , Transportation Research Procedia , pp. 1452 - 1457 , 23521457	2023	The use of mixed reality scenarios for training crisis managers and emergency responders in an ADR tanker accident	0	1.00
7		AA. Tubis, H. Poturaj, K. Deren, A. Zurek, Sensors, pp. 1-27, 1424-8220	2024	Risks of Drone Use in Light of Literature Studies	3.9	4.90
	F. Covaciu, N. Crisan, C. Vaida, I. Andras, A. Pusca, B. Gherman, C. Radu, P. Tucan, N.A. Hajjar, D. Pisla , Integration of Virtual Reality in the Control System of an Innovative Medical Robot for Single-Incision Laparoscopic Surgery , Sensors , 2022 , pp. 1-25 , ISSN/ISBN: 1424-8220					
1		A.E. Iordan , Mathematics , pp. 1-22 , 2227-7390	2024	An Optimized LSTM Neural Network for Accurate Estimation of Software Development Effort	2.4	3.40
2		J.E. Knudsen, R.Z. Ma, A.J. Hung , CURRENT OPINION IN UROLOGY , pp. 37-42 , 0963-0643	2024	Simulation training in urology	2.5	3.50
	F. Covaciu , Designing and manufacturing a Delta Robot for pick and place applications , ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , 2020 , pp. 67-72 , ISSN/ISBN: 1221-5872					
1		C.C. Otel, C.M. Nedezki , ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , pp. 305-312 , 1221-5872	2023	CALCULATIONS FOR THE OPTIMIZATION OF THE CUTTING REGIME WHEN PROCESSING CERTAIN COMPONENTS OF THE 3RUU PARALLEL	0.3	1.30
	F. Covaciu , Development of a virtual reality simulator for an autonomous vehicle , ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING , 2022 , pp. 155-160 , ISSN/ISBN: 1221-5872					
1		B. A. Lease, D.H. Chiam, K.H. Lim, J.T.S. Phang , 2023 International Conference on Digital Applications, Transformation and Economy, ICDATE 2023 , pp. 1-4 , 979-8-3503-1068-9	2023	Development of 3D Scanned Environment in Virtual Reality	0	1.00
				TOTAL		216.71