

Director CSUD,
prof. dr. Anca-Mirela Andreica

Director SD, Centru Universitar UBB din Resita

Fișa de verificare a îndeplinirii standardelor minimale CNATDCU

Comisia: Inginerie Mecanică, Mecatronică și Robotică

Nume, Prenume CRISTEA Aurora Felicia
Funcția didactică conferențiar
Departamentul Ingineria Sistemelor Mecanice
Facultatea Inginerie Industrială, Robotica și Managementul Producției

Specificatie	Domeniul activitatilor	Indicator	Punctaj obtinut	Punctaj minim grila	Realizare Indicatori
Activitatea didactica/profesionala	A.1.1	N1	2.00	2.00	Indeplinit
		N1.1	1.00	1.00	Indeplinit
		N1.3	1.00	1.00	Indeplinit
	A.1.2	N2	9.00	4.00	Indeplinit
		N.2.1	4.00	2.00	Indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	26.76	10.00	Indeplinit
		P1	25.36	6.00	Indeplinit
	A2.2	N3	20.00	10.00	Indeplinit
		N3.1	9.00	5.00	Indeplinit
	A2.4+A2.5	N4	2.00	2.00	Indeplinit
		N4.3	2.00	1.00	Indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	54.01	50.00	Indeplinit
	A3.2	N5	16.00	10.00	Indeplinit
	A3.3	C	82.10	25.00	Indeplinit
Total			254.23	129.00	

Data: iulie, 2025

Cadru didactic,
Conf. dr. ing. Aurora Felicia CRISTEA

Director CSUD,
prof. dr. Anca-Mirela Andreica

Director SD, Centru Universitar UBB din Resita

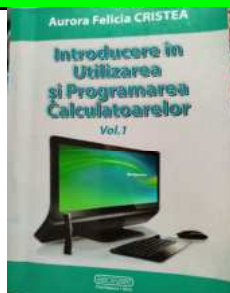
N.1.1

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
1	Cristea Aurora Felicia	1	Introducere în Utilizarea și Programarea Calculatoarelor – vol.1	Ed. Risoprint, pp 444	2014	ISBN general 978-973-53-1340-1	1.00
Total							1.00



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

coautor

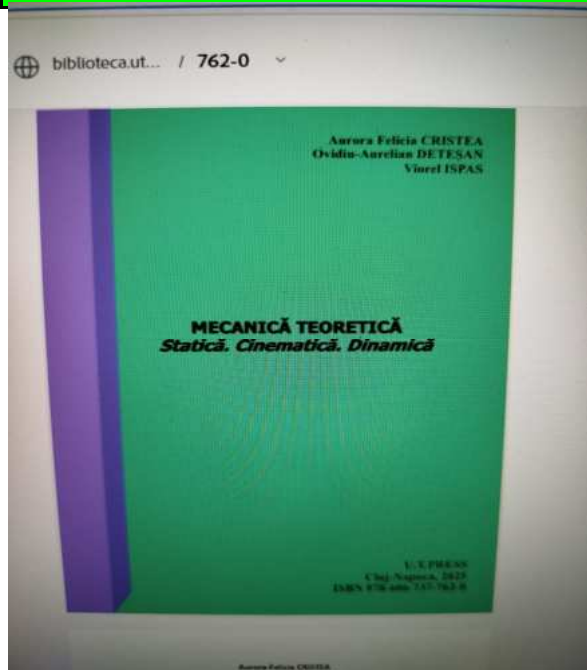
Format tiparit/electronic (minim 100 pagini)

Nr. Crt	Autorii	Numar autori	Titlul	Editura	Anul publicarii	ISBN	punctaj
1							
2							
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	Cristea Aurora Felicia , Detesan Ovidiu, Ispas Viorel	https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/762-0.pdf	2025	3	1.00
Total					1.00



Ed. UTPRESS, pp773

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	Lucrarea Determinarea reacțiunilor grinzilor simplu rezemate	2019	1.00
2	Lucrarea Determinarea avantajului mecanic al pârghiilor	2019	1.00
3	Lucrarea Determinarea grafică a vitezelor și a accelerațiilor în mișcarea unui mecanism plan	2017	1.00
4	Stand pentru determinarea momentelor de inerție mecanice axiale	2019	1.00
Total			4.00

Către,
Domnul Director de Departament
prof. dr. ing. Tiberiu Antal

Subsemnata, Conf. dr. ing. **Aurora Felicia CRISTEA** din departamentul Ingineria Sistemelor Mecanice, a Facultății Inginerie Industrială, Robotică și Managementul Producției, din Universitatea Tehnică din Cluj-Napoca prin prezenta, vă rog, să îmi **aprobați contribuția teoretică și practică adusă la realizarea următoarelor lucrări de mecanică:**

1. Determinarea reacțiunilor grinzilor simplu rezemate;
2. Determinarea avantajului mecanic al pârghiilor;
3. Determinarea grafică a vitezelor și a accelerațiilor în mișcarea unui mecanism plan;

precum și punerea în funcțiune, împreună cu domnul Șef Lucrări dr. ing. Fodor Gabriel a standului:

4. Determinarea momentelor de inerție mecanice axiale.

Data: 01.04.2025

Conf. dr. ing. Aurora Felicia CRISTEA

APROBAT

DA	☒
NU	☐

Director departament,
Prof. dr. ing. Tiberiu ANTAL

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
1	Gabriel FODOR, Aurora Felicia CRISTEA	2	Mecanică Aplicată, Lucrări de laborator	2019	Ed. U.T.Press, pp 109, ISBN 978-606-737-363-9	1.00
2	Claudiu Schonstein, Gabriel Fodor, Aurora Felicia CRISTEA	3	MECHANICS - Laboratory Work. Statics-Kinematics-Dynamics	2022	Ed. U.T. PRESS, pp 148, ISBN 978-606-737-608-1	1.00
3	Aurora Felicia CRISTEA	1	Introducere în MATLAB	2020	Ed. RISOPRINT, Cluj-Napoca, 2020, pp 255 – format electronic (CD), ISBN 978-973-53-2515-2	1.00
4	Viorel Ispas, Aurora-Felicia Pop (Cristea)	2	Probleme de mecanică (Cinematică)	2009	Ed. Didactica si Pedagogica, Bucuresti, ISBN 978-973-30-1645-8	1.00
5	Viorel Ispas, Ovidiu-Aurelian Deteșan, Aurora-Felicia Pop (Cristea)	3	Probleme de mecanică (Statică și cinematică)	2010	Ed. Didactica si Pedagogica, Bucuresti, ISBN 973-30-1645-4	1.00
Total						5.00

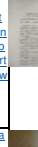
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N2.3 **Aplicatie informatica educationala**
autor, co-autor

Nr.crt.	Autori	Nr. Autori	Titlul	Anul editarii	adresa web	Punctaj individual
1						0.00
Total						0.00

prim autor sau autor corespondent

https://a-tna-mam.ut-clui.ro/in-dex.php	
https://a-tna-mam.ut-clui.ro/in-dex.php/Acta/art-icle/view/770	
https://a-tna-mam.ut-clui.ro/in-dex.php/Acta/art-icle/view/769	
	
	
https://www.scientificbulletin.upb.ro/rev-docs/art-hiva/full-09a_687134.pdf	
	

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	link	Imagini
1	A. Truța, A.F. Pop (Cristea) , M. Arghir	3	Research about transmission of the mechanical vibration done by machine-tools on the group of bones shoulder-neck-head	GAMM 2008, Germany, publicată în PAMM 2009, ISSN 1617-7061	vol. 8, Issue 1	2008	10199-10200	1.00	https://onlinelibrary.wiley.com/doi/10.1002/pamm.200810199	
2	Aurica Truța, Felicia Aurora Pop (Cristea) , Mariana Arghir	3	Study about the biomechanical model of the cervical spine	ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Editura Universității Oradea, ISSN 1583-0691	Volume VII (XVII),	2008	1149-1152	1.00	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://i.mt.uoradea.ro/auo.fmte/files-2008/MECATRONICA_files/TRUTA%20AURICA%201.pdf	
3	Truța Aurica, Pop Aurora-Felicia , Arghir Mariana	3	Studiul privind capacitățile dezvoltate de către operatorul uman, sub acțiunea vibrațiilor mecanice	Locuri de muncă sigure și sănătoase, Satu-Mare, 2008, Ed. UTPres și Ed. Mega Cluj-Napoca, ISBN 978-973-662-395-0 (978-973-1868-41-7).	1	2008	189-194	1.00		

4	Aurica Truța, Aurora Felicia Pop (Cristea) , Mariana Arghir	3	The human body under the action of building vibrations in a residential house	ACTA Technica Napocensis 2010, Series: Applied Mathematics and Mechanics, Ed. UT. Press, ISSN 1221-5872	nr. 53, vol. IV	2010	665-668	1.00	
5	Aurora Felicia Pop (Cristea) , Radu Morariu Gligor, Monica Balcău	3	Analising of Vibrations Measurements upon Hand-Arm System and Results Comparison with Theoretical Model	3-rd European Conference on Mechanism Science, Previous EUCOMES 2010 Conferences, September 14-18, 2010, Cluj-Napoca, Romania Mechanisms and Machine Science, Springer, ISBN 978-90-481-9688-3	vol. 5	2010	277-284	1.00	
6	Aurica Truta, Aurora Felicia Pop (Cristea) , Monica Balcau, Mariana Arghir	4	Development of a biomechanical model to study the horizontal vibration transmitted from shoulder to head	Gesellschaft fur Angewandte Mathematik und Mechanik, A 82- and Anual Meeting Conference, GAMM, 18-22 Aprilie 2011, Graz, Austria, GAMM, , December 2011, DOI 10.1002/pamm.201110056, ISSN 1617-7061.	volume 11, issue 1	2011	129-130	1.00	https://onlinelibrary.wiley.com/doi/10.1002/pamm.201110056 
7	Bălcău Monica, Cristea Aurora Felicia	2	The use the dynamic absorber	ACTA Technica Napocensis, Cluj-Napoca, series: Applied Mathematics and Mechanics, ISSN 1221-5872.	vol. 55, Issue 4	2012	741-744	1.00	

8	Iuliu NEGREAN, Kalman KACSO, Aurora Felicia CRISTEA	3	New formulations on the acceleration energy of first and second order applied in analytical mechanics	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics,ISSN 1221-5872.	Nr.58, Vol.2	2015	187-194	1.00	https://atnamam.utcluj.ro/index.php/Acta/article/view/537
9	Iuliu NEGREAN, Kalman KACSO, Aurora Felicia CRISTEA	3	New formulations on the acceleration energy of second and third order applied in analytical mechanics	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics, ISSN 1221-5872.	Nr.58, Vol.2	2015	179-186	1.00	https://atnamam.utcluj.ro/index.php/Acta/article/view/538
10	Negrean, I., Kacso, K., Schonstein, C., Duca, A., Rusu, F., Cristea, F. , Haragâș, S.	7	New Formulations on Acceleration Energies in Analytical Dynamics	The third International Conference of Mechanical Engineering, ICOME 2015, of Applied Mechanics and Materials (Trans Tech Publishing House, Switzerland), ISSN print 1660- 9336, ISSN web 1662-7482, ISSN cd 1660-9336	Volume 823	2015	43-48	1.00	doi:10.4028/www.scientific.net/AMM.823.43



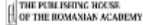
11	Negrean, I., Kacso, K., Schonstein, C., Duca, A., Rusu, F., Cristea, F. , Haragâș, S.	7	New Formulations on Motion Equations in Analytical Dynamics,	The third International Conference of Mechanical Engineering, ICOM 2015, of Applied Mechanics and Materials (Trans Tech Publishing House, Switzerland), ISSN print 1660- 9336, ISSN web 1662-7482, ISSN cd 1660-9336, doi:10.4028/www.scientific.net/ AMM.823.43	Volume 823	2015	49-54	1.00	https://www.scientific.net/AMM.823.49
Total								11.00	

aplicativă
Volum 823
nr. 49-54
2015

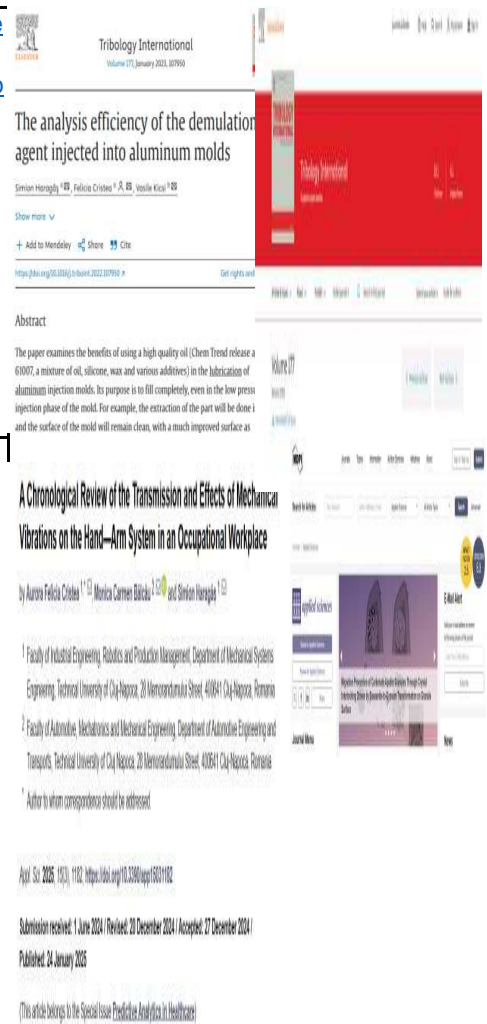
Informații de contact:
Editura: Scientific Publishing
Volum: 823, Nr. 49-54, 2015
Volumul este disponibil online pe
site-ul editurii: www.scientific.net
Volumul este disponibil și în format
CD-ROM.

Informații de contact:
Editura: Scientific Publishing
Volum: 823, Nr. 49-54, 2015
Volumul este disponibil online pe
site-ul editurii: www.scientific.net
Volumul este disponibil și în format
CD-ROM.

P1.1 **Articole și publicații științifice indexate Web of Science - Thomson Reuters *, ****
Autor corespondent/Prim maxim 3 autori

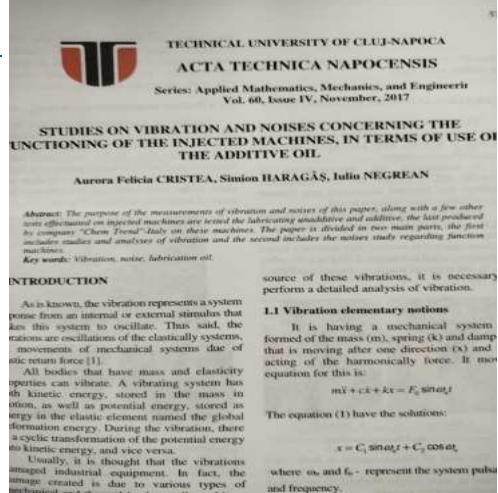
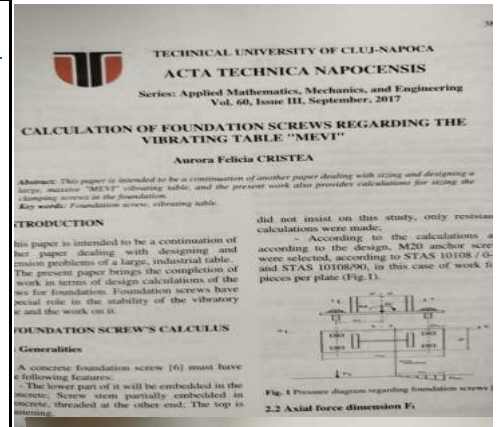
Nr. crt.	Autor corespondent=2; Prim autor=1	Nume autori	Titlul lucrării	Denumire Jurnal /ISSN	Volum/Numar	Anul publicării	nr. pagini (de la .. pana la:)	Factor de impact in anul publicării	Punctaj individual pt n max 3	link	Imagini	Dovada FI
1	1	Cristea Aurora Felicia, Simion Haragăș	The lubricants influence in transmission of vibration and noises from aluminium injection machines	PROCEEDINGS OF THE ROMANIAN ACADEMY / ISSN 1454-9069	Series A, Volume 19, Number 1/2018	2018	p77-84	1.68	3.76	chrome-extension://efaidnbmnnnibpcaipecgclefindmkej/https://acad.ro/siectii2002/proceedings/doc2018-1/11.pdf	 THE PUBLISHING HOUSE OF THE ROMANIAN ACADEMY PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 19, Number 1/2018, pp. 77-84 THE LUBRICANTS INFLUENCE IN TRANSMISSION OF VIBRATION AND NOISES FROM ALUMINIUM INJECTION MACHINES Authors: FELICIA CRISTEA, SIMION HARAGĂȘ Technical University of Cluj-Napoca, Faculty of Mechanical Engineering Systems Corresponding author: Aurora Felicia CRISTEA, E-mail: cristea_fa@yahoo.ro Abstract. This paper proposed a comparative analysis of oil viscosity influence on vibration and noise during machine work operation. It shows the machine work of aluminium injection machine, differently, of some oil types technical and shows how it can be done using VIB-010 v1, and also use a special software to measure noise level. It wants to establish the fact that using the aluminium machine work as additional oil type, it can improve the work and performance of the machine compared to using a normal lubricant change. Keywords: lubricating oil, vibration and noise 1. INTRODUCTION 1.1. Generalities As is known, the vibrating system is a response to an internal or external stimulus that causes the system to oscillate. There are literally [1], [2], hundreds of specific problems that can lead to exposure to excessive vibrations of a machine. If the machinery and equipment that are delivered are not designed, constructed, installed and aligned corresponding to its, their operation can be accompanied by a number of undesirable effects: dynamic vibration transmission to the foundation or their manufacturing to neighboring construction elements. This leads to the development of poor performance and sometimes inadequate of the machine, in their role as functional.	

2	2	Simion Haragăș, Felicia Cristea , Vasile Kicsi	The analysis efficiency of the demulotion agent injected into aluminium molds	Tribology International Journal/ ISSN: 1879-2464	Tom. 177 (2023) 107950	2023	p1-9	5.62	11.64	https://www.sciencedirect.com/science/article/abs/pii/S0301679X22005217
3	1	Aurora Felicia Cristea , Monica Carmen Balcău, Simion Haragăș	A chronological review of the transmission and effects of mechanical vibrations on the hand-arm system in an occupational workplace, Review	(Special Issue Predictive Analytics in Healthcare), MDPI, Applied Science/ ISSN 2076-3417	15,1182, doi: 10.3390/app15031182	2025	p1-33	2.5	5.40	https://www.mdpi.com/2076-3417/15/3/1182

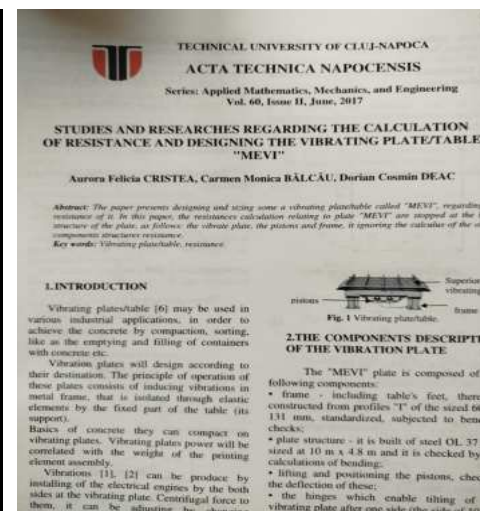


4	1	Aurora Felicia CRISTEA, MARGA GHIȘA (FĂGĂDAR)	Contributions regarding the modeling, design and cost of a vibration damping device in the hand-arm system	ACTA Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering	Vol. 63, Issue II	2020	159-164	0.00	0.40	https://atnamam.utcluj.ro/index.php/Acta/article/view/1332/1151
5	1	Aurora Felicia CRISTEA	Influencing of the vibrations effects to the hand-arm system	ACTA Technica Napocensis Series: Applied Mathematics, Mechanics, and Engineering	Vol. 62, Issue I	2019	121-126	0.00	0.40	https://atnamam.utcluj.ro/index.php/Acta/article/view/1139/1053

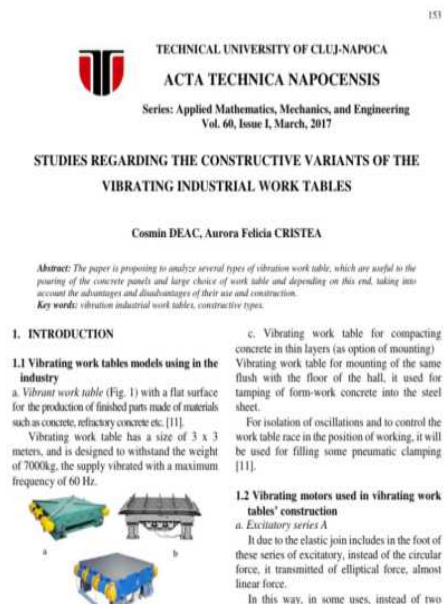


6	1	Cristea Felicia, Haragăș Simion, Negrean Iuliu	Studies on vibration and noises concerning the functioning of the injected machines, in terms of use of the additive oil	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics, ISSN 1221-5872.	vol IV, nr. 60	2017	579-584	0.00	0.40	https://atna-mam.utcluj.ro/index.php/Acta/article/view/936/879	
7	1	Aurora Felicia Cristea	Calculation of foundation screw regarding the vibrating table „MEVI”	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics, ISSN 1221-5872.	vol III, nr. 60	2017	389-392	0.00	0.40	https://atna-mam.utcluj.ro/index.php/Acta/article/view/904/851	

8	1	Aurora Felicia Cristea, Carmen Monica BĂLCĂU, Dorian Cosmin Deac	Studies and researches regarding the calculation of resistance and designing the vibrating plate/table „MEVT”	ACTA Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, ISSN 1221-5872.	vol II, nr. 60	2017	235-238	0.00	0.40	https://atna-mam.utcluj.ro/index.php/Acta/article/view/877/827
9	2	Deac Dorian Cosmin, Aurora Felicia Cristea	Study regarding the constructive variants of the vibrating industrial work tables	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics, ISSN 1221-5872.	vol.I, nr. 60	2017	153-158	0.00	0.40	chrome-extension://efaidnbmnnnibpcajpcgclcfefindmkaj/https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/846/786



10	2	Simion Haragăș, Aurora Felicia Cristea	Experimental research concerning the vibration of the hydraulic pump machine that injected aluminium, depending on the type of hydraulic oil used	ACTA Technica Napocensis, Series: Applied Mathematics and Mechanics, ISSN 1221-5872.	vol.II, nr. 60	2017	171-174	0.00	0.40	
Total									23.60	

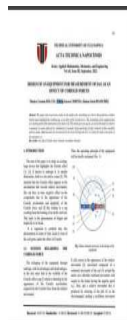


* Trebuie sa fim atenti sa nu raportam lucrari ca fiind publicate intr-un jurnal cu IF (de exemplu, din Elsevier) cand, de fapt, ele sunt publicate intr-un jurnal cu un titlu asemanator sau aproape identic cu cel din Elsevier, dar care are cu totul alt statut (de exemplu e doar indexat, nu si cotate, deci nu are IF)

** Nu se iau in considerare decat lucrarile in extenso (cu cel putin 6 pagini, prin exceptie putand avea si minim 4 pagini),

P1.3 **Articole și publicații științifice indexate Web of Science - Thomson Reuters**
co-autor **maxim 3 autori**

Nr.crt	Nume autori	Titlul lucrării	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	Bălcău, Monica, Cristea A.F. , Boanches S. S.	Design an equipment for measurement of sag as an effect of Coriolis forces. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 63, Issue III, September, 2022, pg. 345-352, ISSN 1221-5872.	Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering	Vol. 63, Issue III	2022	pp. 345-352	0.1	3	0.30



<https://atna-mam.utcluj.ro/index.php/Acta/article/view/1868>

2	Bălcău, Monica, Cristea A.F.	Theoretical considerations regarding the dynamic absorber. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 61, Issue III, September, 2018, pg. 323-332, ISSN 1221-5872.	Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering	Vol. 61, Issue III	2018	pp. 323-332	0.1	2	0.30
Total									0.60

<https://atna-mam.utcluj.ro/index.php/Acta/article/view/1221/1096>



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/N umar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	Simion Haragâș, Roland Ninacs, Ovidiu Buiga, Lucian Tudose, Alexandru Haragâș, Ioana-Monica Sas-Boca, Felicia Aurora Cristea	An attempt to establish a mathematical model for an unconventional worm gear with bearings	MDPI, Applied Science/ ISSN 2076-3417	14, 10833	2024	p1-7	2.5	7	1.16
Total									1.16

<https://www.mdpi.com/2076-3417/14/23/10833>

Open Access Article

An Attempt to Establish a Mathematical Model for an Unconventional Worm Gear with Bearings

by Simion Haragâș ¹✉, Roland Ninacs ¹✉, Ovidiu Buiga ^{1,*}✉, Lucian Tudose ¹, Alexandru Haragâș ²✉, Ioana Monica Sas-Boca ^{3,*}✉ and Felicia Aurora Cristea ¹✉

¹ Mechanical Systems Engineering Department, Faculty of Industrial Engineering, Robotics and Production Management, Technical University of Cluj-Napoca, 28 Memorandumului Street, 400114 Cluj-Napoca, Romania
² Computer Department, Technical University of Cluj-Napoca, 28 Memorandumului Street, 400114 Cluj-Napoca, Romania
³ Materials Science and Engineering Department, Faculty of Materials and Environmental Engineering, Technical University of Cluj-Napoca, 28 Memorandumului Street, 400114 Cluj-Napoca, Romania
* Authors to whom correspondence should be addressed.

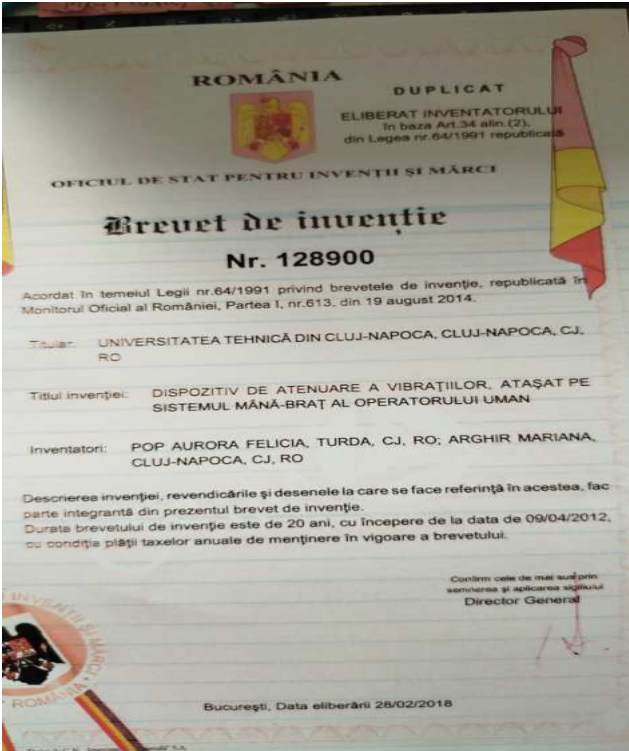
Appl. Sci. 2024, 14(23), 10833; <https://doi.org/10.3390/app142310833>

Submission received: 14 October 2024 / Revised: 15 November 2024 / Accepted: 20 November 2024 / Published: 22 November 2024

(This article belongs to the Special Issue Machine Tools, Advanced Manufacturing and Precision Manufacturing)

P2.2<4 **Brevete indexate OSIM**
Prim autor/autor coresp **maxim 3 autori**

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
1	Pop (CRISTEA) Aurora Felicia, Arghir Mariana	Brevet de Invenție nr. 128900/2018 - Dispozitiv de atenuare a vibrațiilor atasat pe sistemul mână-brăț al operatorului uman	2018	2	1.40
Total					1.40



N4.1-2

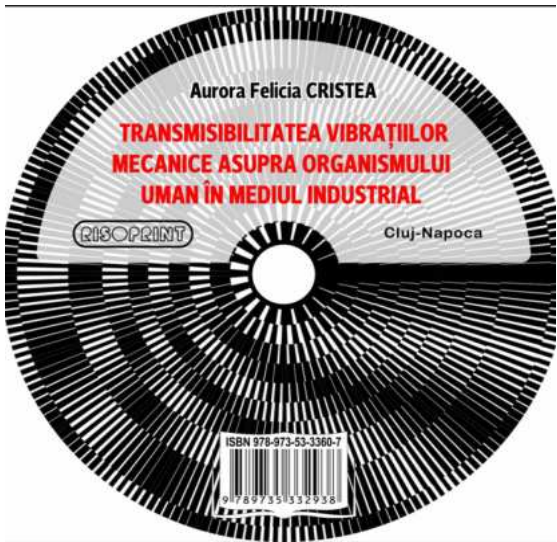
Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)

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

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

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Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1	Aurora Felicia Cristea	TRANSMISIBILITATEA VIBRAȚIILOR MECANICE ASUPRA ORGANISMULUI UMAN ÎN MEDIUL INDUSTRIAL	Ed. Risoprint	2025	978-973-53-3360-7	284	1.00
2	Aurora Felicia Cristea	STUDII PRIVIND ACȚIUNEA VIBRAȚIILOR PROVENITE DIN MEDIUL INDUSTRIAL ASUPRA UTILAJELOR INDUSTRIALE ȘI ASUPRA OPERATORILOR	Ed. Risoprint	2025	978-973-53-3359-1	140	1.00
Total							2.00



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

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Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
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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 internati onal=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
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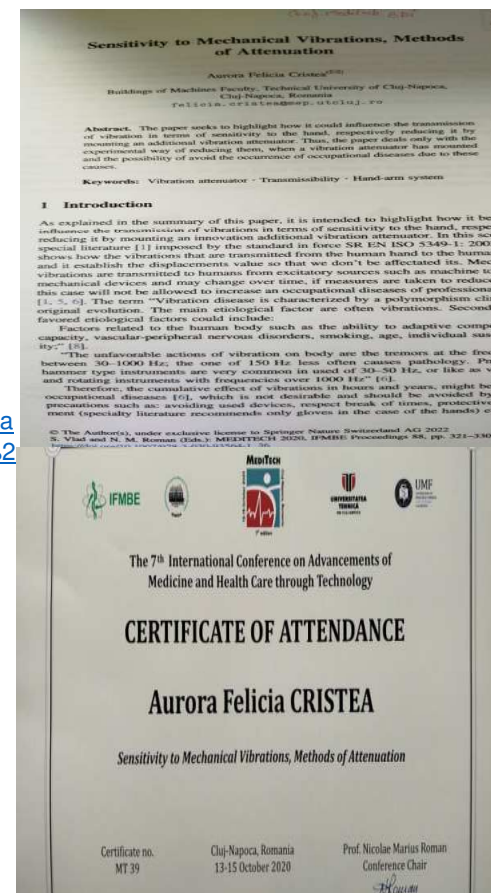
1	3	Salonul Internațional al Inovării și Cercetării Științifice Studențești - "Cadet INOVA'24" / Academia Fortelor Terestre din Sibiu	2024/11-13 aprilie	Review about vibrations and their desired or harmful effects in technology or human daily life , 2024, pp 59-78 (autor principal) .	Salonul Internațional al Inovării și Cercetării Științifice Studențești - "Cadet INOVA'24" - Academia Fortelor Terestre "Nicolae Bălcescu", Sibiu, 11-13 Aprilie, ISSN 2501-3157, 2024, pp 59-78	3.00
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<https://www.cadet.inova.ro/index.php/ro/organizare/catalog/catalog-inova-2024>



2	1	MediTech 2020 – 7-th International Conference Advancements of Medicine and Health Care Through Technolog, Cluj-Napoca	2020	Sensitivity to mechanical vibrations, Methods of attenuation (autor principal)	MediTech 2020 – 7-th International Conference Advancements of Medicine and Health Care Through Technology, 13-15 October 2020, Cluj_Napoca, IFMBE Proceedings of MEDITECH-2020, 13–15 October 2020, pp, 321-330, doi: 10.1007/978-3-030-93564-1_36, Book 7th, Chapter 37, vol. 88, 2020, pp 321-330	1.00
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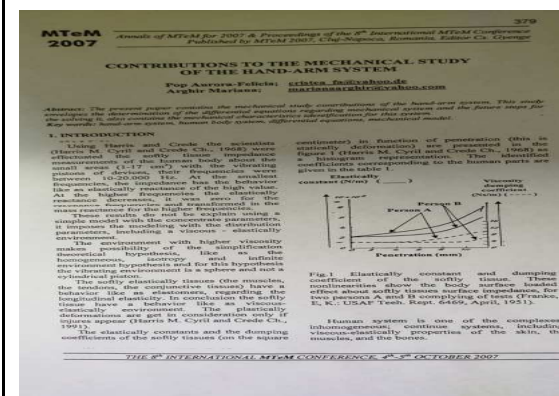
3	1	MediTech 2020 – 7-th International Conference Advancements of Medicine and Health Care Through Technology, Cluj-Napoca	2020	Studies Regarding Vibration Transmitted, using an additional damper, mounted on the hand-arm system (author principal)	MediTech 2020 – 7-th International Conference Advancements of Medicine and Health Care Through Technology, 13-15 October 2020, Cluj_Napoca, IFMBE Proceedings of MEDITECH-2020, 13–15 October 2020, pp, 321-330, doi: 10.1007/978-3-030-93564-1_37, Book 7th, Chapter 37, vol. 88, 2020, pp 331-343	1.00
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https://link.springer.com/chapter/10.1007/978-3-030-93564-1_37



4	1	A 37-a Conferință Națională de Mecanica Solidelor, Acustică și Vibrații, CNMSAV XXXVII, Chișinău	2013	Comparatie între liniaritatea și neliniaritatea unui model mecanic comparat cu sistemul mână-braț (autor principal)	A 37-a Conferință Națională de Mecanica Solidelor, Acustică și Vibrații, CNMSAV XXXVII, Chișinău, 6-8 iun. 2013, indexată B+, ISSN 1584-7284, pp 88-89	1.00	Comparație între liniaritatea și neliniaritatea unui model mecanic corespunzătoare sistemului mână-braț Aurora Felicia CRISTEA Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții de Mașini, Departamentul Ingineria Sistemelor Mecanice, e-mail: cristea_f@yahoo.de ABSTRACT The present paper shall be entered in the field of mechanical vibration and wants to present the possibilities of creating mechanical linear and nonlinear models, which resembles with the human hand-arm system. The results obtained as a result of analysis of dynamic equations that characterize these systems are then compared, marked the connection between the switch from a linear to a nonlinear system on the hand-arm system, taking into account the joints, i.e. those of the wrist and elbow. This study seeks to demonstrate that even a simplified mechanical system, i.e. linear who wants to shape the hand arm system, can provide the stability vibration factors of excitation, even more so if it is approaching reality, becoming non-linear, but in this case can intervene and other disruptive factors, such as the parameters of the torsion joints etc. 1. INTRODUCERE Lucrarea are ca scop validarea teoretică, comparativă între două modele ale sistemului mână-braț, unul liniar și altul neliniar. Așadar, paragrafele următoare vor prezenta realizarea acestor modele mecanice, stabilirea ecuațiilor ce le caracterizează și rezolvarea acestora. Sistemul uman mână - braț este un sistem cu un grad mare de complexitate, neomogen, continuu, cu proprietăți visco-elastice în mușchi, oase și piele. Caracteristicile dinamice din perspectiva analizei modelului biomecanic necesită identificarea proprietăților mecanice, visco-elastice și de inerție ale modelului. În condiții de operare tipice (2,6,1,1,2). La mișcarea brațului uman există mulți factori care se referă la comportamentul acestuia, acești factori se clasifică astfel: a) factori cu comportare statică; b) factori cu comportare dinamică (de exemplu momentele pasive ale încheieturilor (articulațiilor), acestea depinzând numai de unghiurile din articulații). Referitor la vâscozitate și momentele pasive putem afirma că acestea sunt niște proprietăți interne a tuturor articulațiilor umane, ale căror efecte sunt proporționale cu viteza unghiulară a mișcării, în particular cu viteza unghiulară a articulațiilor. Poziția instantanee a unui sistem vibrant, în orice moment al mișcării, poate fi determinată printr-o multitudine de parametri independenți sau coordonate dinamice. Modelul matematic conducând la obținerea ecuațiilor de echilibru dinamic al modelului vibrant. 2. MODELUL MECANIC LINIAR AL SISTEMULUI MÂNĂ-BRAȚ În vederea simplificării modelului mecanic, dinamic, creat al sistemului mână - braț, acesta fiind un model cu masă dis-
5	1	A 37-a Conferință Națională de Mecanica Solidelor, Acustică și Vibrații, CNMSAV XXXVII, Chișinău	2013	Studiu comparativ între modelare și experiment, privind sistemul mână-braț (autor principal)	A 37-a Conferință Națională de Mecanica Solidelor, Acustică și Vibrații, CNMSAV XXXVII, Chișinău, 6-8 iun. 2013, indexată B+, ISSN 1584-7284, pp 71-80	1.00	Studiul comparativ între modelare matematică și experiment, cu privire la sistemul mână-braț Aurora Felicia CRISTEA Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții de Mașini, Departamentul Ingineria Sistemelor Mecanice, e-mail: cristea_f@yahoo.de ABSTRACT The paper is in the field of mechanical vibration and wants to present a comparative analysis between meaning, i.e. mechanical model theory (mathematical analysis) and experimental side, i.e. the measurement of vibration. Thus, the work aims to realize a definition of the non-linear mechanical model of the hand-arm system and, then analyze of the dynamic equations system that defines it. The paper also, proposes an experimental study or a set of measurements of mechanical vibration of the hand-arm system because in the end, a comparison between the two studies, namely the theoretical and experimental result leaded to the study validation. 1. INTRODUCERE Studiile de specialitate (1, 2, 3) au arătat că vibrațiile mecanice se transmit sistemului mână-braț într-o măsură mai mare sau mai mică, în funcție de sex, vârstă, statură și alți factori. De aceea lucrarea își propune realizarea unui model mecanic neliniar, care să se asemine cât mai mult cu cel real, care model să fie caracterizat de soluțiile date prin rezultatele obținute din rezolvarea ecuațiilor ce-l caracterizează. Astfel că, sistemul uman mână-braț este un sistem cu un grad mare de complexitate, neomogen, continuu, cu proprietăți visco-elastice în mușchi, oase și piele (5, 6). Caracteristicile dinamice din perspectiva analizei modelului biomecanic necesită identificarea proprietăților mecanice, visco-elastice și de inerție ale modelului. În condiții de operare tipice. La mișcarea brațului uman există mulți factori care se referă la comportamentul acestuia, acești factori se clasifică astfel: a) factori cu comportare statică; b) factori cu comportare dinamică (de exemplu momentele pasive ale încheieturilor (articulațiilor), acestea depinzând numai de unghiurile din articulații). Poziția instantanee a unui sistem vibrant, în orice moment al mișcării, poate fi determinată printr-o multitudine de parametri independenți sau coordonate dinamice numite și grade de libertate dinamice. 2. MODEL MECANIC Crearea unui model matematic va conduce la obținerea ecuațiilor de echilibru dinamic ale modelului vibrant realizat. Ecuația diferențială de mișcare a modelului se va putea reprezenta sub formă matriceală, astfel: $[M] \left(\frac{d^2 U}{dt^2} \right) + [C] \left(\frac{dU}{dt} \right) + [K] (U) = \{F\}, \quad (1)$ unde: [M], [C] și [K] sunt matricele de inerție ale maselor, ale amortizărilor și ale constantelor de elasticitate ale sistemului. Matricele au dimensiunile (3x3), iar matricea excitației (F) este de dimensiunea

6	1	The 1-st International Conference Advanced Engineering In Mechanical Systems ADEMS 2007, Cluj-Napoca, ROMÂNIA	2007	The Mechanical Vibrations Transmissibility about Wrist (autor principal)	The 1-st International Conference Advanced Engineering In Mechanical Systems ADEMS 2007, Cluj-Napoca, ROMÂNIA, Acta Tehnica Napocensis, SSN 1221-5872, No. 50, Vol. II, pp 63-68	1.00
7	1	MTeM 2007- The 8-th Internațional Technologies in Manufacturing, 3rd-6th October 2007, Cluj-Napoca	2007	Contributions to the Mechanical Study of the Hand-Arm System (autor principal)	MTeM 2007- The 8-th Internațional Technologies in Manufacturing, 3rd-6th October 2007, Cluj-Napoca, ISBN 973-9087-83-3, Ed. Mures, pp 375-384	1.00



8	1	79th of the International Association of Applied Mathematics and Mechanics, (GAMM 2008), Bremen, Germany	2009	The mechanical stability for the hand-arm system under the vibration action (autor principal)	79th of the International Association of Applied Mathematics and Mechanics, (GAMM 2008), Bremen, Germany, publicată în PAMM, ISSN 1617-7061, vol. 8, Issue 1, pp 10187-10188	1.00
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<https://onlinelibrary.wiley.com/doi/10.1002/pamm.200810187>

PAMM - Proc. Appl. Math. Mech. 8, 10187 – 10188 (2008) / DOI 10.1002/pamm.200810187

The Mechanical Stability for the Hand-Arm System

Aurora Felicia Pop ^{1,*}, A. Trupa^{1,2,3}, and Mariana Arghir^{2,3,4,5}

¹ Technical University of Cluj-Napoca, Department of Mechanics and Computer Programming, Romania

The present paper contains a study regarding importance stability in the mechanical systems, mechanical systems are emerging under mechanical vibrations action, it referring especially to the human hand-arm system. Mechanical systems stability is directly influenced of the damper and the elasticity factors.

(c) 2008 Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim

1. Introduction

The source of mechanical vibrations transmissibility of hand-arm is the manual devices and equipments, when the hand and the arm pressed the objects in vibration. (Griffin 1990) [3], for examples percussion hammers for the rock mining industry. Also, much manual equipments are responsible of vibrations transmissibility upon the human operators.

The exposure time and vibrations transmissibility upon the hand-arm is difficult to estimate, because the vibrations magnitude frequently changed, function of the operation conditions, the manipulation number and the gripping force on the manual device.

The stability is very important for a system supposes of the vibrations action and it is the system property for an initial behavior recovering of the repose or the moving, after the system a suffering a perturbation action. The recovering system is possible if development the forces that are in opposite with perturbation, named the *rehabilitated forces*.

A stable system that allow varied at the perturbations action, presented the *statically stability* and if the system is stable to the impulsive perturbations, then it is in the *dynamic stability*.

1 The Mechanical Model

The imposed conditions, that characterized the human system, are centralized into a table 1 and they are in conformity with the real situation of the splitting mechanical processing, above the lathe, of the human operator (the lathe operator).

Table 1 The initial conditions regarding study moving.

Vibrating direction	Axe z_0 (in conformity with anatomical coordinate system)
Excitation	3,207 (m/s ²)
Elbow angle	60°
Subject position	Stand up
Handle diameter	38 mm
Frequency scale	4.14 (Hz)
Gripping force	25 (N)
Gripping place	Palm
Shoulder rotation	0°
Subject	man

Fig. 1 The mechanical model having the five degrees of freedom (DOF), corresponding the hand-arm system used in the vibrating study.

Figure 1 represents the mechanical model of the hand-arm system for the human operator, where m_0 represents the hand concentrated mass having the fingers gripping around the handle device, the device being the longitudinal slid of the tool.

9	1	Gesellschaft für Angewandte Mathematik und Mechanik, A 82-and Anual Meeting Conference, GAMM, 18-22 Aprilie 2011, Graz, Austria	2011	The linear mechanical model for hand-arm system (autor principal)	Gesellschaft für Angewandte Mathematik und Mechanik, A 82-and Anual Meeting Conference, GAMM, 18-22 Aprilie 2011, Graz, Austria, PAMM, volume 11, issue 1, December 2011, pages 107-108, Article first published online: 9 DEC. 2011, DOI 10.1002/pamm.201110045, ISSN 1617-7061.	1.00
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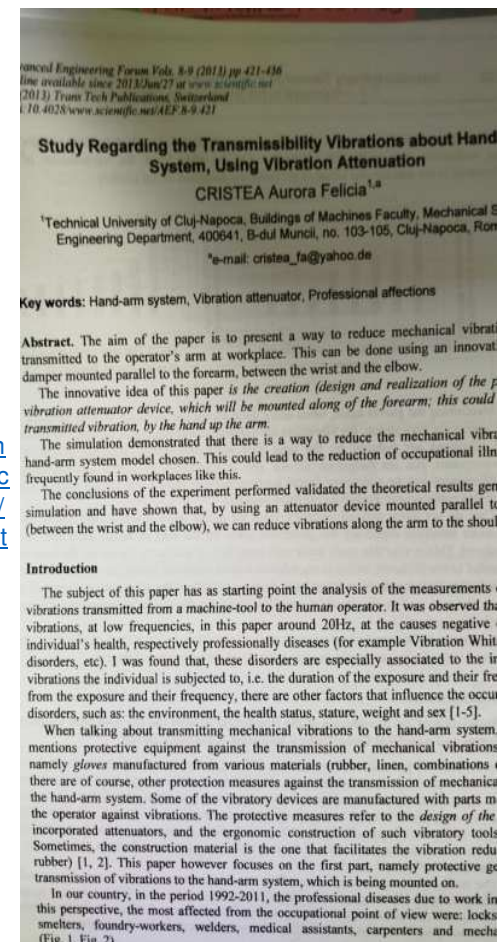
10	1	Interdisciplinary Research in Engineering – Step towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), Cluj-Napoca	2013	The influence of brush cutter's vibrations on human body (co-actor)	Interdisciplinary Research in Engineering – Step towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), Cluj-Napoca, Special Issue – Advanced Engineering Forum Journal (http://www.ttp.net/234-9898.html), B+, indexată SCOPUS, ISI WEB of Knowledge, Special Issue “Advanced engineering forum” vols. 8-9 (2013) pp 445-452, Online available since 2013/Jun/27 at www.scientific.net (doi:10.4028/www.scientific.net/AEF.8-9.421)	1.00
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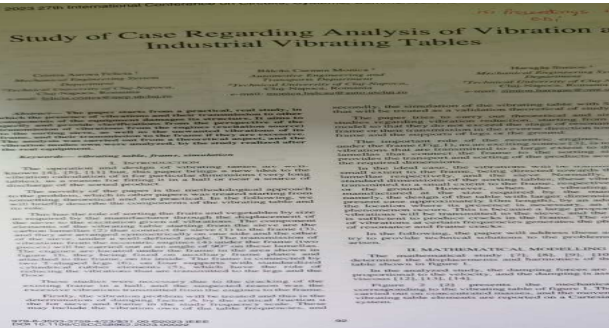


11	1	Interdisciplinary Research in Engineering – Step towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), Cluj-Napoca	2013	Study Regarding the Transmissibility Vibrations about Hand-Arm System, Using Vibration Attenuation (autor principal)	Interdisciplinary Research in Engineering – Step towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), Cluj-Napoca, Special Issue – Advanced Engineering Forum Journal (http://www.ttp.net/2234-9898.html), B+, indexată SCOPUS, ISI WEB of Knowledge, Special Issue “Advanced engineering forum” vols. 8-9 (2013) pp 421-436, Online available since 2013/Jun/27 at www.scientific.net/2013/TransTechPublications/Switzerland/ISSN:2234-991X/doi:10.4028/www.scientific.net/AEF.8-9.421	1.00
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12	1	27th International Conference on Circuits, Systems, Communications and Computers, Grecia	2023	Study of case regarding analysis of vibration at industrial vibrating tables (autor principal)	Aurora Felicia Cristea, Monica Balcau, Simion Haragăș – Study of case regarding analysis of vibration at industrial vibrating tables, 27th International Conference on Circuits, Systems, Communications and Computers Rhodes Island (Rodos Island), Greece, July 19-22, 2023 (http://www.cscs.co/), 979-8-3503-3759-4/23/\$31.00 ©2023 IEEE DOI 10.1109/CSCS58962.2023.00022, pp.92-98.	1.00
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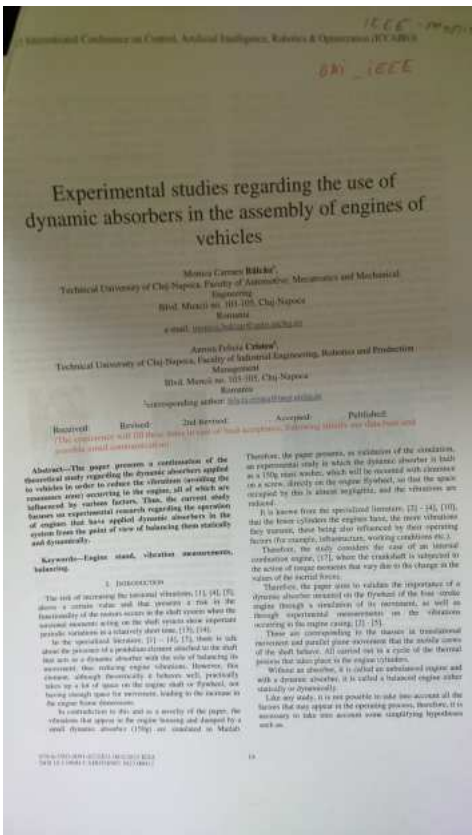
13	1	Proceedings of the 8th International Conference on Manufacturing, Material and Metallurgical Engineering (ICMMME) 2024, Conference	2024	Contribution on the Kinematics of Unconventional Worm Gears (co-autor)	First Online: 30 March 2025, pp 115–126, DOI: https://doi.org/10.1007/978-3-031-78295-4_12, Publisher NameSpringer, Cham, Print ISBN978-3-031-78294-7, Online ISBN978-3-031-78295-4	1.00
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https://link.springer.com/chapter/10.1007/978-3-031-78295-4_12



14	1	ICCAIRO 2023, 4th Int. Conf. on Control, Artificial Intelligence, Robotics & Optimization, Grecia	2023	Experimental Studies Regarding the Use of Dynamic Absorbers in the Assembly of Engines of Vehicles (co-author)	Balcau Carmen Monica, Cristea Aurora Felicia - Experimental Studies Regarding the Use of Dynamic Absorbers in the Assembly of Engines of Vehicles, ICCAIRO 2023, 4th Int. Conf. on Control, Artificial Intelligence, Robotics & Optimization, 1June 2023 (http://www.iccairo.com/), 979-8-3503-0091-8/23/\$31.00 ©2023 IEEE (Int. Conf. on Control, Artificial Intelligence, Robotics & Optimization (ICCAIRO), DOI	1.00
	Total					16.00

<https://www.youtube.com/watch?v=0Q87DG5n6us>



Nr. crt.	Calitatea: director = 1, membru în echipa = 2	Tip proiect *	Titlul proiectului	Perioada de derulare	Valoarea totală UTCN** [ech. Euro]	Valoarea alocată membrului în echipa de către directorul de proiect*** [ech. Euro]	Punctaj individual	Documente justificative
1	2	Cercetare	Proiect CEEX, Contract nr. 751 / 2006, Concepte moderne conform cu reglementările europene specifice privind ecologia transportului de	2006-2008	34 000 (membru: 1750+875 euro)	2625	2.63	Anexa 1
2	2	Cercetare	Proiect CEEX, Contract nr. 129 / 2006, Tema: Sistem computerizat de monitorizare a poluării prin sunete și vibrații în aglomerările urbane – SIICOMSV/2006	2006-2008	11 000 (membru: 1600+800 euro)	2400	2.40	
3	2	Cercetare	Parteneriate în domeniul prioritar, nr. 92-112/1, 1 oct. 2008 - Dezvoltarea unui sistem computerizat pentru evaluarea noxelor profesionale de tip	2008-2011	19 000 (membru: 1600 + 600 euro)	2200	2.20	
4	2	Cercetare_ institutional	Membru cercetător în grup limită, în cadrul proiectului cofinanțat din Fondul Social European prin programul Operațional Sectorial Dezvoltarea Resurselor Umane "4D - POSTDOC" (2010-	2010-2013	20 941 500 Ron	34000	34.00	Anexa 2
5	1	Terti	Contract cercetare nr. 35-08/09/2014, Studii și cercetări privind transmiterea vibrațiilor la locul de muncă (director proiect:	2014-2015	685	685	0.69	Anexa 1
6	1	Terti	Contract cercetare nr. 36-08/09/2014, Analiza de caz privind limită de zgomot la locul de muncă (director proiect:	2014-2015	685	685	0.69	Anexa 1
7	1	Terti	Contract cercetare nr. 31-13/04/2016, Cercetări privind influența gradului de acustică în mașini și utilaje, folosite în construcții de drumuri, din punct	2016-2017	11160	11160	11.16	Anexa 1
8	2	Terti	Contract de cercetare internațională nr. 1405/22.06.2016, Cercetări și studii experimentale comparative privind caracteristicile diferentiale	2016	1996	250	0.25	Anexa 1
Total						54005	54.01	

*** Pentru contracte de cercetare din fondul de dezvoltare a cercetării = 5 Euro/1000
** Se va specifica în fiecare proiect, în funcție de costul activității sau costul activității
* Se va introduce valoarea în RON

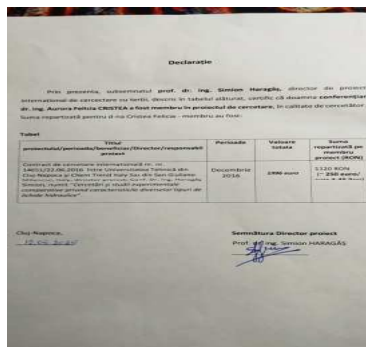
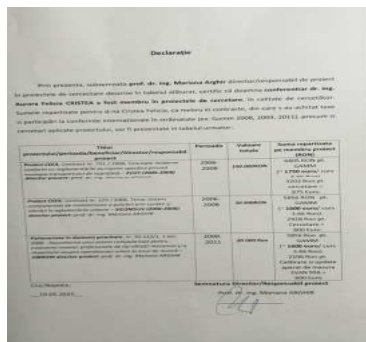
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Anexa 1



Anexa 2



C. Citări în publicații BDI (WOS si Scopus)

Nota: se exclud autocitările

Nu se considera autocitare articolul în care apar autori din articolul citat, dar lipsește declarantul (persoana care completează Fisa de evaluare)

Nr. Crt.	Date de identificare complete ale articolul citat (se exclud autocitările)***	Date de identificare complete ale articolelor care citează	Anul în care a fost citată lucrarea	Linkul articolului care citează	Factorul de impact al publicației WOS în care apare citarea	Punctaj individual
1	Contributions regarding the modeling, design and cost of a vibration damping device in the hand-arm system, Cristea, AF and Ghisa, M, Jun 2020, ACTA TECHNICA NAPOCENSIS Series-Applied Mathematics Mechanics and engineering, 63 (2) , pp.159-164.	Vibration of automotive suspensions, Geonea, I; Ionica, V; (...); Matei, I Feb 2021, Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 64 (1), pp.325-334	2021	https://www.ebofscience.com/wos/wosc/full-record/WOS:000633446300006	0.100	1.10

2	Theoretical considerations regarding the dynamic absorber, Balcau, M and Cristea, AF Sep 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (3) , pp.417-422	New aspects concerning vibration suppression in multi degree of freedom mechanical systems, Scutaru, MI; Mihalcica, M; (...); Shrrat Omar, OA Mar 2023 Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 66 (1), pp.25-34	2023	https://www.ebofscience.com/wos/wosc/c/full-record/WOS:000995805400003	0.100	1.10
3	Theoretical considerations regarding the dynamic absorber, Balcau, M and Cristea, AF Sep 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (3) , pp.417-422	Aerodynamic Performance Evaluation for a Vehicle Structure Equipped With a Bicycle Rack, Scurtu, II Mar 2021 Ingineria Automobilului, (58) , pp.10-14	2021	https://www.ebofscience.com/wos/wosc/c/full-record/WOS:000628819500003	0.100	1.10
4	Theoretical considerations regarding the dynamic absorber, Balcau, M and Cristea, AF Sep 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (3) , pp.417-422	Study Of The Influence Of Roof Luggage Box On A Vehicle Aerodynamics Jurco, AN Mar 2021 Ingineria Automobilului (58) , pp.15-18	2021	https://www.ebofscience.com/wos/wosc/c/full-record/WOS:000628819500004	0.100	1.10
5	Transmissibility Vibrations About Hand-Arm System When Used A Simulating Vibration Attenuation Cristea, AF Mar 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (1), pp.115-120	Contribution to the Dynamic Study of the Mill With Horizontal Axis. Part Ii: Differential Equations System Arghir, M; Macovei, AM and Detesan, OA Jun 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (2), pp.223-230	2019	https://www.ebofscience.com/wos/alldb/full-record/WOS:000483186000001	0.100	1.10

6	Transmissibility Vibrations About Hand-Arm System When Used A Simulating Vibration Attenuation Cristea, AF Mar 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering, 62 (1), pp.115-120	Experimental Study on the Equilibrium and Stability of a Sportif on the Mobil Platform Albus, AD and Arghir, M Jun 2019 Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 62 (2), pp.343-350	2019	https://www.ebofscience.com/wos/alldb/full-record/WOS:00048318600017	0.100	1.10
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	Total					82.10

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Conf. dr. ing. Aurora Felicia Cristea