Anexa 3. R14 – F02

Fişa de verificare

Numele şi prenumele candidatului: Stelian ALACI
Denumirea postului didactic: profesor, Poziţia 5

Standarde minimale pentru ocuparea prin concurs a posturilor vacante ale universităţii:

Nr. crt.	Denumire standard	Documentele care dovedesc îndeplinirea standardelor
1.	Doctor	Diploma doctor Seria C Nr 0007404 Nr.4/20.11.2003, Universitatea Stefan cel Mare Suceava
2.	Media examenului de finalizare a studiilor (minim 8.50)	Nota examen diploma 10 (zece), Diploma Seria F Nr. 11610/Nr.42245/7.12.1988 Media absolvire facultate 9.86 (nouă 86%)
3.	Pentru postul didactic de profesor Universitar - calitatea de conducător de doctorat	Ordin atestat abilitare, Ministerul Educaţiei, Nr. 4562/03.08.2021

Punctaj pentru performanţe didactice şi cercetare ştiinţifică - profesor universitar.

Nr. crt	Denumire standard conform Ordinului MEN nr. 6129/2016	Documentele care dovedesc îndeplinirea standardelor
1	**Anexa 17** - Inginerie Mecanică, Mecatronică şi Robotică	Fişa de calcul şi de susţinere a îndeplinirii standardelor minimale necesare şi obligatorii pentru conferirea titlurilor didactice din învăţământul superior

Fisa de verificare - Sinteza punctajelor

Condiţii minimale şi obligatorii					
Domeniul de activitate		**Indicatori**	**Profesor**	**Realizat**	
Activitatea didactică/ profesională (A1)	A1.1	N1	**2**	**2**	criteriu îndeplinit
		N1.1	**1**	**2**	criteriu îndeplinit
		N1.3	**1**	**1**	criteriu îndeplinit
	A1.2	N2	**4**	**37**	criteriu îndeplinit
		N2.1	**2**	**30**	criteriu îndeplinit
Activitatea de cercetare (A2)	A2.1+A2.3	P1+P2	**10**	**15.563**	criteriu îndeplinit
		P1	**6**	**15.038**	criteriu îndeplinit
	A2.2	N3	**10**	**58**	criteriu îndeplinit
		N3.1	**5**	**36**	criteriu îndeplinit
	A2.4+A2.5	N4	**2**	**4**	criteriu îndeplinit
		N4.3	**1**	**4**	criteriu îndeplinit
Recunoaşterea si impactul activităţii (A3)	A3.1	S1+S2	**50**	**150.712**	criteriu îndeplinit
	A3.2	N5	**10**	**53**	criteriu îndeplinit
	A3.3	C	**25**	**79.652**	criteriu îndeplinit

TOTAL PUNCTAJ: necesar 129/ realizat **487.965** puncte

Data, 12.01.2022

Întocmit, Nume, prenume şi semnătură candidat:
ALACI Stelian

Alaci

FIŞA DE CALCUL ŞI DE SUSŢINERE A ÎNDEPLINIRII STANDARDELOR MINIMALE NECESARE ŞI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂŢĂMÂNTUL SUPERIOR

COMISIA 17 - INGINERIE MECANICĂ, MECATRONICĂ ŞI ROBOTICĂ

Conf.dr.ing. Stelian ALACI

1. Activitatea didactică şi profesională – DID (A1)

A1.1 Manuale suport de curs (conform fişei disciplinei de concurs)		
Nr.crt.	**Format tipărit/electronic (min. 100 pag.) Coordonator/prim autor** **A_1_1_Manuale_cursuri_editura**	**N1.1**=numar
1	**S. Alaci,** *Mecanisme cu roţi dinţate, Geometria şi cinematica*, Editura Matrix Rom, Bucureşti, 2006 ISBN 9789737550514, 156p.	1
2	**S. Alaci**, *Mecanisme articulate: Geometria şi cinematica*, Editura Matrix Rom, Bucureşti, 2006, 150 p. ISBN9789737	1
	Total N1.1	**2**
Nr.crt.	**Format tipărit/electronic (min. 100 pag.) Co-autor**	**N1.2**=numar
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	Total N1.2	**0**
	N1=N1.1+N1.2	**2**
Nr.crt.	**Format electronic disponibil pe platforma universităţii (autor)**	**N1.3**=numar
1	*Mecanică şi mecanisme* - Curs, Stelian Alaci, 2010, USV A_1_1_manuale electronice https://fim.usv.ro/wp-content/uploads/sites/9/2021/02/Curs-Mecanica-Mecanisme-platforma.pdf	1
	Total N1.3	**1**

A1.2 Material didactic /Dezvoltare laboratoare, aplicaţii		
Nr.crt.	**Standuri laborator (construcţie/modernizări) certificate de directorul de department** **A_1_2_standuri_laborator**	**N2.1**=numar
1.	Stand pentru studiul alunecării laterale	1
2.	Stand pentru studiul efectului de reglare a turaţie a regulatorului centrifugal de tip WATT	1
3.	Stand pentru studiul cinematic al mecanismului RCCC (Yang)	1
4.	Stand pentru studiul cinematic si optimizarea constructivă a mecanismului RSRC	1
5.	Stand pentru utilizarea mişcărilor oscilatorii în investigarea proprietăţilor lichidelor	1
6.	Stand pentru studiul autoblocării în cuplele de translaţie	1
7.	Stand pentru studiul ciocnirilor spaţiale. Bila cu mişcare generală	1
8.	Stand pentru determinarea coeficientului de restituire	1
9.	Stand pentru studiul structural si cinematic al mecanismului cu placa oscilantă	1
10.	Stand pentru determinarea amortizării din materiale polimerice	1
11.	Stand pentru studiul atenuării efectelor percuţiilor în cuplele cinematice	1
12.	Stand pentru studiul dinamicii ciocnirilor	1
13.	Stand pentru evidenţierea fotoelastică a histerezisului din contactele cu rostogolire	1
14.	Stand pentru studiul ciocnirilor oblice	1
15.	Stand pentru determinarea variaţiei forţei dintr-o ciocnire centrică	1
16.	Stand pentru studiul generării danturii in evolventă prin metoda rulării	1
17.	Stand si metoda pentru evidenţierea şi determinarea percuţiilor tangenţiale	1
18.	Stand pentru studiul deformaţiilor post impact	1
19.	Stand pentru studiul cinematic al mecanismului cu camă rotativă şi tachet oscilant cu talpă plană prin metode analitice, numerice şi experimentale	1
20.	Stand pentru studiul transmisiei homocinetice tripodice	1
21.	Stand si metoda pentru determinarea vâscozităţii	1
22.	Stand pentru studiul cuplajului tetrapodic	1
23.	Stand pentru studiul frecării în angrenajele cilindrice	1
24.	Stand pentru studiul frecării de pivotare	1

25.	Stand pentru determinarea coeficientului de rostogolire cu ajutorul pendulului cicloidal	1
26.	Stand pentru studiul frecării de rostogolire cu ajutorul pendulului evolventic	1
27.	Stand pentru determinarea frecării de rostogolire cu ajutorul planului înclinat	1
28.	Stand pentru determinarea coeficientului de rostogolire cu ajutorul pendulului conic	1
29.	Stand pentru determinarea frecării de rostogolire cu ajutorul pendulului hipercicloidal	1
30.	Stand pentru determinarea curbei de histerezis a materialelor ultramoi	1
	Total N2.1	**30**
Nr.crt.	**Îndrumar laborator/carte aplicaţii format tipărit sau electronic (autor, co-autor)** A_1_2_indrumare laborator	**N2.2**=numar
1	**Stelian Alaci,** Mecanisme-Indrumar de proiect, Partea I: Mecanisme cu bare articulate, Ed. Univeritatii Suceava, 2003, ISBN 973-8293-96-0, ISBN 973-8293-97-9, 100 pag.	1
2	**Stelian Alaci,** Mecanisme cu came-Indrumar de proiect, 98 pag, Suceava	1
3	**Stelian Alaci,** Mecanisme-Indrumar de laborator, 59 pag., Suceava	1
4	**Stelian Alaci**, Elemente de cinematica spatiala in format matriceal, Alaci Stelian, 2016, Suceava	1
	Total N2.2	**4**
Nr.crt	**Aplicaţie informatică educaţională** A_1_2_aplicatii informatice	**N2.3**=numar
1	Trasarea profilului camei pentru un mecanism cu tachet de translatie cu rola (Aplicaţie informatică)	1
2	Modelarea cinematica a transmisiei bicardanice (Aplicaţie informatică)	1
3	Modelarea cinematica a transmisiei tripodice (Aplicaţie informatică)	1
	Total N2.3	**3**
	N2=N2.1+N2.2+N2.3	**37**

2. Activitatea de cercetare ştiinţifică, dezvoltare tehnologică şi inovare – CDI (A2)

A2.1 Articole şi publicaţii ştiinţifice indexate Web of Science Thomson Reuters (WOS), unde n = nr.de autori şi FI este factorul de impact		
Nr. crt.	**autor-corespondent/prim autor** P1.1=2*(0,2+FI), n ≤3 A_2_1_P_1\Articole ISI WOS.docx	**P1.1**
1	Alaci, Stelian; Musca, Ilie; Pentiuc, Stefan-Gheorghe, Study of the Rolling Friction Coefficient between Dissimilar Materials through the Motion of a Conical Pendulum, MATERIALS, 2020, **13 (21)** AN5032, DOI 10.3390/ma13215032, WOS:000589407200001 IF2019=3.057, 2*3.257 (poz 1 lista ISI)	6.514
2	Alaci, S., Ciornei, F. C., Filote, C., Considerations upon a new tripod joint solution, MECHANIKA, Issue: 5 Pages: 567-574, DOI: 10.5755/j01.mech.19.5.5539, Published: 2013, WOS:000326185300012, IF2013=0.336 IF2019=0.458, 2*0.658 (poz 6 lista ISI)	1.316
3	Alaci, S., Ciornei, F. C., Filote, C., The Fourier series expansions in bipolar coordinates of the Boussinesq-Cerruti potentials and some consequences, Journal of the Balkan Tribological Association, Volume: 19, Issue: 1, Pages: 1-13, Published: 2013, WOS:000317437300001, FI_{2013}=0.321, 2*0.580 (poz 7 lista ISI)	1.042
		8.872
	Total P1.1	
Nr. crt.	**autor-corespondent/prim autor** P1.2=2*3*(0,2+FI)/n, pentru n ≥4 A_2_1_P_1\Articole ISI WOS.docx	**P1.2**
1	Alaci, S.; Kalitchin, Zh; Kandeva, M.; Ciornei, F. C.; Bujoreanu, C.; Machado, J. SIMPLE TECHNIQUE AND DEVICE FOR SLURRIES VISCOSITY MEASUREMENT JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, ISSN 1311-5065, 20(2), 2019, WOS:000473514900025 IF2019=0.692, 6*0.892/6 (poz 3 lista ISI)	0.892

2	Alaci, Stelian, Bujoreanu, Carmen, Ciornei, Florina Carmen, Fodorean, Daniel. Theoretical and Experimental Aspects Regarding Nonlinear Effects of Dry Friction and Unbalanced Rotational Mass in a Dynamical System, MECHANIKA, Volume: 24, Issue: 6, Pages: 811-816, DOI: 10.5755/j01.mech.24.6.22470, 2018, WOS:000455913800007, IF2019=0.458, 6*0.658/4 (poz 4 lista ISI)	0.987
3	Alaci S., Kalitchin Z., Kandeva M., Ciornei F.C., Method and device for the study of damping of environmental friendly foam type materials, Journal of Environmental Protection and Ecology, 2020, vol 21, issue 4, pp 1298-1313, EID 2-s2.0-85095731016, IF2019=0.692 IF2019=0.692, 6*0.892/4 (poz 2 lista ISI)	1.338
4	Alaci, S.; Filote, C.; Ciornei, F.; Grosu, O.; Raboaca, M. An Analytical Solution for Non-Linear Viscoelastic Impact. Mathematics 2021, 9(16), 1849; https://doi.org/10.3390/math9161849. https://www.mdpi.com/2227-7390/9/16/1849 IF=2.258	2.949
	Total P1.2	**6.166**
Nr. crt.	**co-autor n ≤3, P1.3=0.2+FI**	**P1.3**
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	Total P1.3	**0**
Nr. crt.	**co-autor, n ≥4, P1.4=3*(0.2+FI)/n**	**P1.4**
	Total P1.4	**0**
	P1=P1.1+P1.2+P1.3+P1.4	**15.038**

A2.2 Articole şi publicaţii ştiinţifice BDI neincluse la A2.1		
Nr.crt.	**Autor corespondent / prim autor** N.3.1 Alaci prim autor Scopus	**N3.1=n** umăr
1	**Alaci**, S., Doroftei, I., Buium, F., Ciornei, F.-C., Romanu, I.-C., A Numerical Procedure for Position Analysis of a Robotic Structure. Part I: General Methodology, (2021) Mechanisms and Machine Science, 88, pp. 23-32., https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093104328&doi=10.1007%2f978-3-030-60076-1_3&partnerID=40&md5=d8a39c57b0ba680fa88ce02e834352e4. DOI: 10.1007/978-3-030-60076-1_3	1
2	**Alaci**, S., Doroftei, I., Buium, F., Ciornei, F.-C., Romanu, I.-C.,A Numerical Procedure for Position Analysis of a Robotic Structure. Part II: 3C Robotic Arm Illustration, (2021) Mechanisms and Machine Science, 88, pp. 33-42., 2) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093076741&doi=10.1007%2f978-3-030-60076-1_4&partnerID=40&md5=2c20a8f7ccc67939f532e6f2db319ddf, DOI: 10.1007/978-3-030-60076-1_4	1
3	**Alaci**, S., Bujoreanu, C., Petrea, N.D., Ciornei, F.C., Irimescu, L.Proposed parameter for the characterization of friction in cylindrical gears teeth contact(2020) IOP Conference Series: Materials Science and Engineering, 724 (1), art. no. 012008, .3) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079074747&doi=10.1088%2f1757-899X%2f724%2f1%2f012008&partnerID=40&md5=95ee76cc38e64a02e21eb003bb74a918, DOI: 10.1088/1757-899X/724/1/012008	1
4	**Alaci**, S., Ciornei, F.C., Pentiuc, R.D., Ciornei, M.C., Romănu, I.C.Indetermination versus incompatibility in dynamic systems with dry friction (2020) Journal of Physics: Conference Series, 1426 (1), art. no. 012011, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079078307&doi=10.1088%2f1742-6596%2f1426%2f1%2f012011&partnerID=40&md5=b24829c5f1bc863313b81ca3c3bd454d DOI: 10.1088/1742-6596/1426/1/012011	1
5	**Alaci**, S., Ciornei, F.C., Pentiuc, R.D., Ciornei, M.C., Romănu, I.C. Upon the efficiency of gear transmissions (2020) Journal of Physics: Conference Series, 1426 (1), art. no. 012012, . 5) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079063494&doi=10.1088%2f1742-6596%2f1426%2f1%2f012012&partnerID=40&md5=5e0cff0886540c27af996d6091864f55 DOI: 10.1088/1742-6596/1426/1/012012	1

6	**Alaci**, S., Irimescu, L., Ciornei, F.C., Kandeva, M. Device and method for simultaneous determination of rolling and spinning friction in a concentrated contact (2020) Journal of the Balkan Tribological Association, 26 (1), pp. 1-10. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081610180&partnerID=40&md5=7b5b4b223df9ee1526d5b5feb3c84b2	1
7	**Alaci**, S., Alexandru, C., Ciornei, F.-C., Doroftei, I., Irimescu, L. Chaos illustrations in dynamics of mechanisms (2020) Mechanisms and Machine Science, 89, pp. 297-304. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090288789&doi=10.1007%2f978-3-030-55061-5_34&partnerID=40&md5=d324d75547ce8a2dd5b399651c9c0b7a DOI: 10.1007/978-3-030-55061-5_34	1
8	**Alaci**, S., Pentiuc, R.D., Doroftei, I., Ciornei, F.C. Use of dual numbers in kinematical analysis of spatial mechanisms. Part II: Applying the method for the generalised Cardan mechanism(2019) IOP Conference Series: Materials Science and Engineering, 568 (1), art. no. 012032, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073419412&doi=10.1088%2f1757-899X%2f568%2f1%2f012032&partnerID=40&md5=111276abb986ad92517c3ae4347b9da3 DOI: 10.1088/1757-899X/568/1/012032	1
9	**Alaci**, S., Pentiuc, R.D., Ciornei, F.-C., Buium, F., Rusu, O.T. Kinematics analysis of the swash plate mechanism (2019) IOP Conference Series: Materials Science and Engineering, 568 (1), art. no. 012017, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073442085&doi=10.1088%2f1757-899X%2f568%2f1%2f012017&partnerID=40&md5=a05eee184e2ebcbe85b60c22e868de6e DOI: 10.1088/1757-899X/568/1/012017	1
10	**Alaci**, S., Pentiuc, R.-D., Ciornei, F.C., Romanu, I.C., Irimescu, L., Buium, F. Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 1: Theoretical model (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069508184&doi=10.1088%2f1757-899X%2f514%2f1%2f012002&partnerID=40&md5=74eb50d21b4335962641595225349c1e DOI: 10.1088/1757-899X/514/1/012002	1
11	**Alaci**, S., Pentiuc, R.D., Ciornei, F.C., Romanu, I.C., Siretean, S.T., Ciornei, M.C. Method for simultaneous estimation of rolling and spinning friction in a higher pair (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012005, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069503942&doi=10.1088%2f1757-899X%2f514%2f1%2f012005&partnerID=40&md5=666e1ca825cc32b450d23cf12c5f79f6 DOI: 10.1088/1757-899X/514/1/012005	1
12	**Alaci**, S., Ciornei, F.C., Bujoreanu, C., Ciornei, M.C., Acsinte, I.L. Finding the coefficient of rolling friction using a pericycloidal pendulum (2018) IOP Conference Series: Materials Science and Engineering, 444 (2), art. no. 022015, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057736009&doi=10.1088%2f1757-899X%2f444%2f2%2f022015&partnerID=40&md5=5ea47877f21083e756c6d88c3044f3f3 DOI: 10.1088/1757-899X/444/2/022015	1
13	**Alaci**, S., Ciornei, F.C., Buium, F., Romanu, I.C., Rusu, O.T. Grapho-analytical kinematic analysis for plane cam mechanisms and follower with finite curvature (2018) IOP Conference Series: Materials Science and Engineering, 444 (5), art. no. 052001, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057726349&doi=10.1088%2f1757-899X%2f444%2f5%2f052001&partnerID=40&md5=9f66efb41b943cc6a401a76ccbbb4be0 DOI: 10.1088/1757-899X/444/5/052001	1
14	**Alaci**, S., Ciornei, F.-C., Romanu, I.-C., Ciornei, M.-C. Evaluation of spinning friction from a thrust ball bearing (2018) IOP Conference Series: Materials Science and Engineering, 400 (2), art. no. 022002, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059805619&doi=10.1088%2f1757-899X%2f400%2f2%2f022002&partnerID=40&md5=ef65ffb09cee2fd31a2784e6f40b8bdd DOI: 10.1088/1757-899X/400/2/022002	1

15	**Alaci**, S., Ciornei, F.C., Romanu, I.C., Ciornei, M.C. Upon the relationship between rolling friction and sliding friction (2018) IOP Conference Series: Materials Science and Engineering, 400 (4), art. no. 042002, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055811854&doi=10.1088%2f1757-899X%2f400%2f4%2f042002&partnerID=40&md5=c9746626fba8a15a2c69d8858cf9ff2e DOI: 10.1088/1757-899X/400/4/042002	1
16	**Alaci**, S., Ciornei, F.-C., Siretean, S.-T., Ciornei, M.-C. Graphical-analytical analysis of the mechanism with rotating cam and flat-face follower (2018) MATEC Web of Conferences, 184, art. no. 01010, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054593879&doi=10.1051%2fmatecconf%2f201818401010&partnerID=40&md5=5f22faa3346bb2c557b3967f843157af DOI: 10.1051/matecconf/201818401010	1
17	**Alaci**, S., Ciornei, F.-C., Siretean, S.-T., Ciornei, M.-C., Andreiibu, G. Dynamical analysis of a 2-degrees of freedom spatial pendulum (2018) MATEC Web of Conferences, 184, art. no. 01003, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054598417&doi=10.1051%2fmatecconf%2f201818401003&partnerID=40&md5=83bfed7779a634b087283f2333ae7bd5, DOI: 10.1051/matecconf/201818401003	1
18	**Alaci**, S., Ciornei, F.C., Romanu, I.C., Ciornei, M.C. The importance of correct specification of tribological parameters in dynamical systems modelling (2018) IOP Conference Series: Materials Science and Engineering, 294 (1), art. no. 012039, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040974059&doi=10.1088%2f1757-899X%2f294%2f1%2f012039&partnerID=40&md5=d4afbea4a7ee496a906fd84eca032560, DOI: 10.1088/1757-899X/294/1/012039	1
19	**Alaci**, S., Ciornei, F.-C., Alexandru, E.-V., Filote, C. Kinetostatic of knife edge translating follower under dry friction conditions (2018) Mechanisms and Machine Science, 57, pp. 341-348. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047647400&doi=10.1007%2f978-3-319-79111-1_34&partnerID=40&md5=3284cdf143bfa66ce4c7617655fb590c DOI: 10.1007/978-3-319-79111-1_34	1
20	**Alaci**, S., Buium, F., Ciornei, F.-C., Dobincă, D.-I. Tetrapod coupling (2018) Mechanisms and Machine Science, 57, pp. 349-356. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047639688&doi=10.1007%2f978-3-319-79111-1_35&partnerID=40&md5=d20cb87cece6a4d5dc81ae667c4b8efd DOI: 10.1007/978-3-319-79111-1_35	1
21	**Alaci**, S., Ciornei, F.-C., Musca, I., Barz, C., Siretean, S.T. An accurate technique for finding the coefficient of rolling friction using the inclined plane method (2018) Journal of the Balkan Tribological Association, 24 (4), pp. 679-689. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060648956&partnerID=40&md5=1f7bdda88da0a8a928d52b549166c2	1
22	**Alaci**, S., Filote, C., Fodorcan, D., Alexandru, E.-V., Amarandei, D., Ciornei, F.-C. Damped periodic motions used in the study of the drag coefficient (2017) MATEC Web of Conferences, 112, art. no. 07003, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85023608474&doi=10.1051%2fmatecconf%2f201711207003&partnerID=40&md5=abef2c0339176adc6b51d66106092ab6 ,DOI: 10.1051/matecconf/201711207003	1
23	**Alaci**, S., Irimescu, L., Popescu, M.-A., Fodorcan, D., Amarandei, D., Ciornei, F.-C. Testing the assumption of linear dependence between the rolling friction torque and normal force (2017) MATEC Web of Conferences, 112, art. no. 07002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85023606201&doi=10.1051%2fmatecconf%2f201711207002&partnerID=40&md5=77e9a0da91b9f9ec8066032b0b1185c1 DOI: 10.1051/matecconf/201711207002	1
24	**Alaci**, S., Ciornei, F.C., Ciogole, A., Ciornei, M.C. Estimation of coefficient of rolling friction by the evolvent pendulum method (2017) IOP Conference Series: Materials Science and Engineering, 200 (1), art. no. 012005, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020162899&doi=10.1088%2f1757-899X%2f200%2f1%2f012005&partnerID=40&md5=79095af05d159be2e52c13b573eedfb0 DOI: 10.1088/1757-899X/200/1/012005	1

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25	**Alaci**, S., Ciornei, F.C., Amarandei, D., Irimescu, L., Romanu, I.C., Rotar, M.A. The effect of transport velocity upon spin torque (2017) IOP Conference Series: Materials Science and Engineering, 174 (1), art. no. 012008, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016310114&doi=10.1088%2f1757-899X%2f174%2f1%2f012008&partnerID=40&md5=2884ddb50307dfb37c3a84463771b6c5 DOI: 10.1088/1757-899X/174/1/012008	1
26	**Alaci**, S., Ciornei, M.C., Ciornei, F.C., Filote, C., Romanu, I.C. Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part II: Device and experimental results (2016) IOP Conference Series: Materials Science and Engineering, 161 (1), art. no. 012057, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013018786&doi=10.1088%2f1757-899X%2f161%2f1%2f012057&partnerID=40&md5=b51bbf053d90c328c486ed9819842342 DOI: 10.1088/1757-899X/161/1/012057	1
27	**Alaci**, S., Ciornei, M.C., Ciornei, F.C., Filote, C., Amarandei, D. Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part I: Determination of mechanical characteristics and dynamic model proposal (2016) IOP Conference Series: Materials Science and Engineering, 161 (1), art. no. 012056, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012956257&doi=10.1088%2f1757-899X%2f161%2f1%2f012056&partnerID=40&md5=502301698380c4e247e322c74919251e, DOI: 10.1088/1757-899X/161/1/012056	1
28	**Alaci**, S., Ciornei, F.C., Filote, C., Romanu, I.C., Nastaca, C.P. Determination of the coefficient of friction using spinning motion (2016) IOP Conference Series: Materials Science and Engineering, 147 (1), art. no. 012024, https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989907616&doi=10.1088%2f1757-899X%2f147%2f1%2f012024&partnerID=40&md5=8cd3495e1de74b309323a981090898b3 DOI: 10.1088/1757-899X/147/1/012024	1
29	**Alaci**, S., Ciornei, M.C., Filote, C., Ciornei, F.C., Gradinariu, M.C. Considerations upon applying tripodic coupling in artificial hip joint (2016) IOP Conference Series: Materials Science and Engineering, 147 (1), art. no. 012074, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989831303&doi=10.1088%2f1757-899X%2f147%2f1%2f012074&partnerID=40&md5=e31558fcdca395fc640bcb67f590f74b DOI: 10.1088/1757-899X/147/1/012074	1
30	**Alaci**, S., Ciornei, F.-C., Filote, C., Theoretical and experimental stress states in diametrically loaded eccentric rings, (2016) Journal of the Balkan Tribological Association, 22 (3), pp. 2959-2979., https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054406995&partnerID=40&md5=df835d119dbabe646b980a78f8ee203b	1
31	**Alaci**, St., Ciornei, Fl., Filote, C. Some remarks upon collision between a dropping ball and a rotating disk (2016) Journal of the Balkan Tribological Association, 22 (2-II), pp. 1560-1579. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85023628544&partnerID=40&md5=e0a63ade4f18d590c30d9021ef951f9	1
32	**Alaci**, S., Cerlinc, D.A., Ciornei, F.C., Filote, C., Frunza, G. Method of Integration for Equation of Two Balls in Dumped Collision (2015) Journal of Physics: Conference Series, 585 (1), art. no. 012008, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957837347&doi=10.1088%2f1742-6596%2f585%2f1%2f012008&partnerID=40&md5=2f4245e148fdebada6aa0998e3d3ac1e DOI: 10.1088/1742-6596/585/1/012008	1
33	**Alaci**, S., Cerlinc, D.A., Ciornei, F.C., Filote, C., Frunza, G. Experimental Highlight of Hysteresis Phenomenon in Rolling Contact (2015) Journal of Physics: Conference Series, 585 (1), art. no. 012010, . https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957812930&doi=10.1088%2f1742-6596%2f585%2f1%2f012010&partnerID=40&md5=23e237bac80f327e639d468669bffadf DOI: 10.1088/1742-6596/585/1/012010	1
34	**Alaci**, S., Ciornei, F.C., Filote, C. Some consideration regarding the models for collisions with plastic indentation (2014) Applied Mechanics and Materials, 658, pp. 161-166. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920678602&doi=10.4028%2fwww.scientific.net%2fAMM.658.161&partnerID=40&md5=ff365f709778e2015b635a9f7cd5c652 DOI: 10.4028/www.scientific.net/AMM.658.161	1

35	Alaci, S.; Ciornei, F. C.; Amarandei, D.; Cerlinca D., Upon Applying Closed Contours Method in Plane Mechanisms with Higher Pairs Edited by: Visa, I, Conference: 10th International Symposium on Science of Mechanisms and Machines Location: Brasov, ROMANIA Date: OCT 12-15, 2009, SYROM 2009: PROCEEDINGS OF THE 10TH IFTOMM INTERNATIONAL SYMPOSIUM ON SCIENCE OF MECHANISMS AND MACHINES, 2009 Pages: 207-216 Published: 2010 Springer, https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896486558&doi=10.1007%2f978-90-481-3522-6_16&partnerID=40&md5=f7db67d213d2a1dc756dd1d50a35d117DOI: 10.1007/978-90-481-3522-6_16	1
36	**Alaci**, S., Ciornei, F.C., Irimescu, L., Amarandei, D. Experimental aspects concerning self-locking angle (2010) SYROM 2009 - Proceedings of the 10th IFToMM International Symposium on Science of Mechanisms and Machines, pp. 479-493. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896475506&doi=10.1007%2f978-90-481-3522-6_39&partnerID=40&md5=2b0485310e1af4dfa4bdf40f74e83ab8 DOI: 10.1007/978-90-481-3522-6_39	1
	Total N3.1	**36**
Nr.crt	**Co-autor** **N.3.2 Alaci co-autor Scopus**	
1	Ciornei, F.C., Alaci, S., Pentiuc, R.D., Doroftei, I., Use of dual numbers in kinematical analysis of spatial mechanisms. Part I: Principle of the method (2019) IOP Conference Series: Materials Science and Engineering, 568 (1), 012033, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073471598&doi=10.1088%2f1757-899X%2f568%2f1%2f012033&partnerID=40&md5=5e9abe0cb425d2a9196a5faeaca8ed5e, DOI: 10.1088/1757-899X/568/1/012033	1
2	Ciornei, F.-C., Alaci, S., Pentiuc, R.D., Bujoreanu, C., Rusu, O.T. The study of the motion of a gyroscope without rotational symmetry (2019) IOP Conference Series: Materials Science and Engineering, 568 (1), art. no. 012018, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073434648&doi=10.1088%2f1757-899X%2f568%2f1%2f012018&partnerID=40&md5=7cd03e06a8d6f57404c490ea1605cf3b, DOI: 10.1088/1757-899X/568/1/012018	1
3	Petrea, N.D., Bujoreanu, C., Alaci, S. Analysis of the noise emissions of a common-rail pump before and after an endurance test (2019) IOP Conference Series: Materials Science and Engineering, 591 (1), art. no. 012064, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072115159&doi=10.1088%2f1757-899X%2f591%2f1%2f012064&partnerID=40&md5=4698debfba56e0da4f9103708ebecdd8, DOI: 10.1088/1757-899X/591/1/012064	1
4	Ciornei, F.C., Pentiuc, R.D., Alaci, S., Romanu, I.C., Siretean, S.T., Ciornei, M.C. An improved technique of finding the coefficient of rolling friction by inclined plane method, (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012004, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069508488&doi=10.1088%2f1757-899X%2f514%2f1%2f012004&partnerID=40&md5=f7e0ea27a401cece56946f29606e3f18, DOI: 10.1088/1757-899X/514/1/012004	1
5	Ciornei, F.C., Pentiuc, R.-D., Alaci, S., Romanu, I.C., Irimescu, L., Buium, F., Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 2:Experimental investigation (2019) IOP Conference Series: Materials Science and Engineering, 514 (1), art. no. 012003, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069494976&doi=10.1088%2f1757-899X%2f514%2f1%2f012003&partnerID=40&md5=dc960c51a5c09615e493dac4ab431eb4, DOI: 10.1088/1757-899X/514/1/012003	1
6	Ciornei, F.C., Alaci, S., Romanu, I.C., Mihai, I., Tibu, G.A. Kinematical analysis of a generalized Cardanic joint (2019) IOP Conference Series: Materials Science and Engineering, 477 (1), art. no. 012037, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062730196&doi=10.1088%2f1757-899X%2f477%2f1%2f012037&partnerID=40&md5=54d5547fcdd9ba68829f0041a9635e4a, DOI: 10.1088/1757-899X/477/1/012037	1

7	Ciornei, F.C., Alaci, S., Romanu, I.C., Mihai, I., Lazar, V.C. Aspects concerning the friction for the motion on an inclined plane of an axisymmetric body (2019) IOP Conference Series: Materials Science and Engineering, 477 (1), art. no. 012036, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062726266&doi=10.1088%2f1757-899X%2f477%2f1%2f012036&partnerID=40&md5=dfbe58ee16b2d1176a2ce20fc7b4a510, DOI: 10.1088/1757-899X/477/1/012036	1
8	Irimescu, L., Alaci, S. Considerations on friction coefficient in a simple harmonic motion (2018) IOP Conference Series: Materials Science and Engineering, 444 (2), art. no. 022018, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057757676&doi=10.1088%2f1757-899X%2f444%2f2%2f022018&partnerID=40&md5=80cf67178fbe55052a2cc233f5451d94, DOI: 10.1088/1757-899X/444/2/022018	1
9	Siretean, S.T., Alaci, S., Musca, I., Ciornei, F.C. Determining the coefficient of rolling friction using hypocycloidal oscillations (2018) IOP Conference Series: Materials Science and Engineering, 444 (2), art. no. 022017 https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057742627&doi=10.1088%2f1757-899X%2f444%2f2%2f022017&partnerID=40&md5=d6de73353bbdc4c3fe25ab347313201b, DOI: 10.1088/1757-899X/444/2/022017	1
10	Buium, F., Leohchi, D., Alaci, S., Duca, C. A versatile apparatus for inverse and direct kinematic analysis of 3RRR planar parallel mechanisms (2018) IOP Conference Series: Materials Science and Engineering, 444 (5), art. no. 052009, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057739026&doi=10.1088%2f1757-899X%2f444%2f5%2f052009&partnerID=40&md5=b93ac4a198ab28451421e1f82bc80f2b, DOI: 10.1088/1757-899X/444/5/052009	1
11	Ciornei, F.C., Alaci, S., Dulucheanu, C., Ciornei, C., Ciornei, M.C. The effect of mass eccentricity upon tribological test results (2018) IOP Conference Series: Materials Science and Engineering, 444 (2), art. no. 022016, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057728964&doi=10.1088%2f1757-899X%2f444%2f2%2f022016&partnerID=40&md5=56d2e8f292092e91088b99e858989b56, DOI: 10.1088/1757-899X/444/2/022016	1
12	Ciornei, F.C., Doroftei, I., Alaci, S., Prelipcean, G., Dulucheanu, C. Analytical kinematics for direct coupled shafts using a point-surface contact (2018) IOP Conference Series: Materials Science and Engineering, 444 (5), art. no. 052002, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057727044&doi=10.1088%2f1757-899X%2f444%2f5%2f052002&partnerID=40&md5=fbd9774c95c54d6e88cc8e0afbb3a19c, DOI: 10.1088/1757-899X/444/5/052002	1
13	Ciornei, F.-C., Alaci, S., Siretean, S.-T., Ciornei, M.-C. An improved model for the damped impact of composite materials applicable to wind turbine blades (2018) MATEC Web of Conferences, 184, art. no. 01008, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054590058&doi=10.1051%2fmatecconf%2f201818401008&partnerID=40&md5=a415319260e2c56f887ab7b635c75290, DOI: 10.1051/matecconf/201818401008	1
14	Ciornei, F.-C., Alaci, S., Siretean, S.-T., Ciornei, M.-C., Dragoi, I.-B., LazaR, V.-C. Considerations on finding the rolling and spinning friction coefficients (2018) MATEC Web of Conferences, 184, art. no. 01009, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054598083&doi=10.1051%2fmatecconf%2f201818401009&partnerID=40&md5=51b07abc0e30c19fc845237a1ac3c704, DOI: 10.1051/matecconf/201818401009	1
15	Ciornei, F.C., Alaci, S., Romanu, I.C., Ciornei, M.C., Sopon, G. Identification of exponent from load-deformation relation for soft materials from impact tests (2018) IOP Conference Series: Materials Science and Engineering, 294 (1), art. no. 012041, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040971885&doi=10.1088%2f1757-899X%2f294%2f1%2f012041&partnerID=40&md5=7c82ef70f3b3ae7d1c9367be64bbe2ed, DOI: 10.1088/1757-899X/294/1/012041	1

16	Siretean, S.T., Muscă, I., Alaci, S., Ciornei, F.-C. Use of hypocycloidal motion in the study of rolling friction (2018) Mechanisms and Machine Science, 57, pp. 467-476. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047652514&doi=10.1007%2f978-3-319-79111-1_46&partnerID=40&md5=46c662b7ea119e7647f419c297647c6d, DOI: 10.1007/978-3-319-79111-1_46	1
17	Ciornei, M.C., Alaci, S., Ciornei, F.C., Romanu, I.C. A method for the determination of the coefficient of rolling friction using cycloidal pendulum (2017) IOP Conference Series: Materials Science and Engineering, 227 (1), art. no. 012027, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028014653&doi=10.1088%2f1757-899X%2f227%2f1%2f012027&partnerID=40&md5=7ca0df66873bc35c591b1097e8ef8d7c, DOI: 10.1088/1757-899X/227/1/012027	1
18	Ciornei, M.C., Alaci, S., Ciornei, F.C., Romanu, I.C. Use of loading-unloading compression curves in medical device design (2017) IOP Conference Series: Materials Science and Engineering, 227 (1), art. no. 012026, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028002964&doi=10.1088%2f1757-899X%2f227%2f1%2f012026&partnerID=40&md5=2c613351536de03e5febba36772ef06a, DOI: 10.1088/1757-899X/227/1/012026	1
19	Ciornei, F.-C., Alaci, S., Amarandei, D., Filote, C., Tămăşag, I. Rigidity versus deformability hypothesis in impact dynamics (2017) MATEC Web of Conferences, 112, 07005, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85023606511&doi=10.1051%2fmatecconf%2f201711207005&partnerID=40&md5=9b1a3759d3b410cb0cebf25d667524dc , DOI: 10.1051/matecconf/201711207005	1
20	Ciornei, F.C., Alaci, S., Ciogole, V.I., Ciornei, M.C. Valuation of coefficient of rolling friction by the inclined plane method (2017) IOP Conference Series: Materials Science and Engineering, 200 (1), art. no. 012006, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020203977&doi=10.1088%2f1757-899X%2f200%2f1%2f012006&partnerID=40&md5=260558e120e8e60c999bb46a063bb0f7 , DOI: 10.1088/1757-899X/200/1/012006	1
21	Ciornei, F.C., Alaci, S., Amarandei, D., Irimescu, L., Romanu, I.C., Acsinte, L.I. Method and device for measurement of dynamic viscosity (2017) IOP Conference Series: Materials Science and Engineering, 174 (1), art. no. 012041, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016291961&doi=10.1088%2f1757-899X%2f174%2f1%2f012041&partnerID=40&md5=84bb24a3af58b638f291e03180ef8419 DOI: 10.1088/1757-899X/174/1/012041	1
22	Filote, C., Ciufudean, C., Alaei, S., Cozgarea, A.M. Harmonie elimination and power factor improvement of three-phase rectifier using RNSIC variant (2011) 3rd International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2011, art. no. 6036326, pp. 40-45 https://www.scopus.com/inward/record.uri?eid=2-s2.0-80054953498&doi=10.1109%2fICCEP.2011.6036326&partnerID=40&md5=71b19d410e0c4f5463fd326cca05f7c3 , DOI: 10.1109/ICCEP.2011.6036326	1
	Total N3.2	**22**
	N3=N3.1+N3.2	**58**

A2.3 Brevete de inventii indexate		
Nr.crt.	**Internationale Indexate inWeb of Science Derwent Innovation,** P2.1 acelaşi calcul cu A2.1 şi FI=2	**P2.1**
		0
	Total P2.1	**0**
Nr. crt.	**Nationale indexate OSIM** P2.2 acelaşi calcul cu A2.1 şi FI=0,5 P.2.2 brevet	**P2.2**
1	**ALACI S,** BUZDUGA C, CIMPAN T, FILOTE C, OLENICI G B, STOLNICEANU L, TUDOSI C, TURCULET V., Motor electric. Electric motor, Patent Number(s): RO122742-B1, Inventor(s): Patent Assignee Name(s) and Code(s): UNIV SUCEAVA STEFAN CEL MARE (UYSU-Non-standard), Derwent Primary Accession Number: 2010-G081 79 [40], n=8, FI=2, (2*3*(0.2+FI)/n)	0.525
	Total P2.2	**0**

	P2=P2.1+P2.2	**0.525**

A2.4 Produse, tehnologii, platforme şi servicii inovative (validate conform procedurilor specifice unităţilor de învăţământ superior sau de cercetare)		
Nr.crt.	Coordonator/prim autor	**N4.1**=numar
	Total N4.1	**0**
Nr.crt.	Co-autor	**N4.2**=numar
	Total N4.2	**0**

A2.5 Monografii/cărţi de specialitate(2), format tipărit/electronic (min. 100 pag.)

nr.crt.	**Coordonator, prim autor** A_2_5_Monografii	**N4.3**=numar
1	**Stelian Alaci**, *Mecanisme cu came*, ISBN:978-606-25-0227-0 Ed MatrixRom Bucuresti 2016, 223p	1
2	**Stelian Alaci,** F C Ciornei, C Filote, *Teorie, model si experiment in dinamica sistemelor cu percutii,* ISBN:978-606-25-0228-7, Ed Matrix Rom Bucuresti 2016, 280 pagini	1
3	**Stelian Alaci**, *Aplicaţii ale coordonatelor bipolare în elastostatica plană. Partea I. Rezultate teoretice,* 294 pag. Matrixrom, 2020 CIP 24436/10.12.2020, ISBN 978-606-25-0611-7	1
4	**Stelian Alaci**, F C Ciornei, *Elemente de cinematică spaţială cu aplicaţii în robotică şi teoria mecansimelor*, 151 pag. Matrixrom, 2020, CIP 24336/09.12.2020, ISBN 978-606-25-0610-0	1
	Total N4.3	**4**
Nr.crt.	Co-autor	**N4.4**=num
	Total N4.4	**0**
	N4=N4.1+N4.2+N4.3+N4.4	**4**

3. Recunoasterea si impactul activitatii – RIA (A3)

A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terţi		
Nr.crt.	Director sau responsabil partener la grant/proiect câştigat prin competiţie nationala sau internationala S1= Suma din grant/proiect încasată de instituţie repartizată echipei din care directorul de grant/responsabil partener face parte (S1 include cheltuieli de: personal, logistică, deplasări, indirecte).	**S1**=suma echivalenta in mii Euro
	---	-
	Total S1	**0**
Nr.crt.	Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi S2=Suma din grant/proiecte câştigate prin concurs naţional/internaţional şi proiecte/contracte terţi încasată de instituţie şi repartizată de director/responsabil persoanei respective (S2 include cheltuieli de: personal, logistică, deplasări, indirecte).	**S2**=suma echivalenta in mii Euro
1.	DERECOVITMAR - Dezvoltarea unei reţele de colaborare in domeniul ingineriei proceselor de prelucrare cu viteze mari si foarte mari, Programul CEEX nr. 205/2006, Modulul III, tip de proiect P– INT-VIZ, Autoritate contractantă: Centrul Naţional de Management Programe, CNMP, Contractor: Universitatea „Ştefan cel Mare" Suceava, Director proiect: Dumitru AMARANDEI, Valoarea totală nerambursabilă de la bugetul de stat: 200.000 lei, Perioada: 2006-2008 (24 luni). A_3_1_Contracte\contracte D Amarandei	2,857

2.	CENVITMAR - Cercetări privind relaţiile dintre structură-proprietăţi material la prelucrarea cu viteze mari şi implementarea acestor tehnologii în mediul industrial, cu implicaţii în competitivitatea economiei naţionale, Programul CEEX nr. 292/2006, Modulul I, tip de proiect P–CD, Autoritate contractantă: Centrul Naţional de Management Programe, CNMP, Contractor: Universitatea „Ştefan cel Mare" Suceava, Director proiect: Dumitru AMARANDEI, Valoarea totală nerambursabilă de la bugetul de stat: 1.329.000 lei., Perioada: 2006-2008 (28 luni). A_3_1_Contracte\contracte D Amarandei	56,57
3.	FILOLET - Sistem novativ de monitorizare a calităţii energiei electrice bazat pe transformata wavelet în vederea creşterii eficienţei energetice a consumatorilor industriali, Programul PNCDI, PN II, Programul 4: Parteneriate în domeniile prioritare, Direcţia de cercetare: 2. Energie, Autoritate contractantă: Centrul Naţional de Management Programe, CNMP, Contractor: Universitatea „Ştefan cel Mare" Suceava, Contract nr. 22-137/01.10.2008, Director proiect: Constantin FILOTE, Parteneri: P1-Universitatea Tehnica "Gh. Asachi" Iasi, P2 – Technosoft International, Bucureşti, P3 - Institutul de Cercetari şi Proiectări Electrotehnice ICPE SA, P4 - Universitatea "Politehnica" Timisoara, Perioada: 01.10.2008-01.10.2011 (36 luni) A_3_1_Contracte\contracte C Filote EUR_{2008}=3.787; S=0.1*393.698/3.787=10.396	10.396
4.	SICRAMAS - Sistem inteligent de conducere neliniară robust-adaptivă după fluxul rotoric a acţionărilor cu motoare asincrone, Programul PNCDI, PN II, Programul 4: Parteneriate în domeniile prioritare, Direcţia de cercetare: 7. Materiale, procese şi tehnologii inovative, Autoritate contractantă: Centrul Naţional de Management Programe, CNMP, Contractor: Universitatea „Ştefan cel Mare" Suceava, Contract nr. 71-065/18.09.2007, Director proiect: Constantin FILOTE, Parteneri: P1-Universitatea Tehnica Gh. Asachi Iasi, P2 - Institutul de Cercetari si Proiectari Electrotehnice ICPE SA, P3 - Universitatea Politehnica Timisoara, Perioada: 18.09.2007-18.06.2010 (33 luni). A_3_1_Contracte\contracte C Filote EUR_{2007}=3.372; S=0.15*655.645/3.372=29.166	29.166
5.	ECODIN - Evoluţia spaţio – temporală a caracteristicilor ecosistemelor acvatice - criteriu de stabilire a dinamicii ecologice, Programul PNCDI, PN II, Programul 4: Parteneriate în domeniile prioritare, Direcţia de cercetare: 3 Mediu, Autoritate contractantă: Centrul Naţional de Management Programe, CNMP, Bucureşti, Contractor: Instiuttului Naţional de Cercetare-Dezvoltare pentru Ecologie Industrială, ECOIND, Bucuresti, Contract nr. 31-068 / 18.09.2007, Director proiect: Gheorghe BATRINESCU, Parteneri: P1- Universitatea „Ştefan cel Mare", Responsabil partener USV: Constantin FILOTE, Perioada: 14.09.2007-14.04.2010 (31 luni). A_3_1_Contracte\contracte C Filote, EUR_{2007}=3.372; S=0.1*190.3.5/3.372=5.644	5.644
6.	Cercetări fundamentale privind efectele materialului şi a geometriei elementelor în contact asupra frecării, vibraţiilor şi emisiei acustice la contactul hertzian cu rostogolire cu aplicaţii la rulmenţi. Contr. nr. 870/1994; beneficiar, S.C. Rulmenţi S.A. Bârlad. Director DIACONESCU, E.N., membri: MUSCA, I., **Alaci** S., Ciornei F., Irimescu L.	------
7.	Efectul cavităţilor circulare interioare asupra contactelor elastice plane, CNCSIS, Director: Diaconescu, E. N., Membri : **Alaci**, S., Glovnea, M., Cerlincă, D. 2002, cod 475 (70000 Mii Lei) 1EURO=31268; S=0.25*70000*1000/1000*31268=0.56 2003cod 451, (67500 Mii Lei), 1EURO=38062 lei; S=0.25*67500*1000/1000*38062=0.443 A_3_1_Contracte\granturi Diaconescu E	1,003
8.	grant CTI6 CNCSIS 39404 , cod 160, 2000-2002. "Contribuţii fundamentale şi aplicative privind optimizarea contactului lubrifiant greu încărcat cu rostogolire/alunecare". Director grant: Ioan CIORNEI, membri: Mihai, I., Muscă, I., **Alaci**, S., Ciornei, F., Irimescu, L. A_3_1_Contracte\grant_160_I Ciornei_deplasare Lyon 2002_.pdf	1.187
9.	Contract cercetare Stiintifica"Cercetari privind Optimizarea structurilor mecanice", nr. 1096/1993, director. Prof. dr. ing. Ioan Ciornei. A_3_1_Contracte\contract 1993_dir. I_Ciornei.pdf	0.089

10.	Contribuţii fundamentale şi aplicative privind optimizarea contactului lubrifiat greu încărcat cu rostogolire/alunecare, CNCSIS, 2003, director Grant: Diaconescu, E. N., membri: Mihai, I., Muscă, I., **Alaci**, S., Ciornei, F., Irimescu, L.	-
11.	"Cercetări fundamentale în elastohidrodinamică şi mecanica contactului", Contract nr. 34818/1999, cod CNCSIS 502 în anul 1999, cod CNCSIS 224 în anul 2001, valoare 495.000 lei, director Grant: E.N. Diaconescu, membri: Gh. Frunză, I. Muscă, S. **Alaci**, D. Cerlincă, F. Ciornei, M. Glovnea, L. Irimescu, O. Miron Onciul,	-
12.	Cercetări fundamentale şi aplicative privind influenţa tensiunilor iniţiale în oboseala biomecanică, Contract nr. 6161/2000, ANSTI -2000, CNCSIS – 2001, 2002, Director grant Dr. Ing. Frunză Gh., valoare 100000 lei. Membru in colectiv. Punctaj repatizat s=0.15*100/2.57=5.83 A_3_1_Contracte\contracte G Frunza	5.83
13.	Cercetari privind efectele tensiunilor initiale din bioconiacteie dentare, grant CNCSIS 757, 2007-2008, director Prof. Dr. ing. Frunza Gh., 158000 RON. Membru in colectiv. Punctaj repartizat s=0.15*158/3.74=6.33 A_3_1_Contracte\contracte G Frunza	6.33
14.	"Cercetări privind procesele de distrugere interactivă în oboseala mecanică", GAR, 2001, 2002, nr.80, director Grant: Gh. Frunză, membri: S. **Alaci**, D. Cerlincă, F. Ciornei	-
15.	MANSID, Contract POSCCE 671/09.04.2015 membru colectiv, LABORATORUL DE CERCETĂRI PRIVIND TEHNOLOGIILE PERFORMANTE DE FABRICAŢIE ŞI MANAGEMENT INTEGRAT (CIM), din cadrul „Centrului integrat de cercetare, dezvoltare şi inovare pentru Materiale Avansate, Nanotehnologii şi Sisteme Distribuite de fabricaţie şi control (MANSiD)" Director Laborator: Prof. D. Amarandei. (3950290 lei) A_3_1_Contracte\contract MANSID	-
16.	Contract nr. 2146/16.02.2018 USV si 435/02.03.2018 UEFISCDI, cu tema „HOLISTICA IMPACTULUI SURSELOR REGENERABILE DE ENERGIE ASUPRA MEDIULUI ŞI CLIMEI", Horesec, PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, PNCDI III, si AA nr. 2519/04.12.2018 USV la CIM-122/02.05.2018 Director USV Prof. R.D. Pentiuc. Parte USV 514000 lei. A_3_1_Contracte\contract HORESEC	1.24
17.	Responsabil tema cercetare in proiectul Progres si dezvoltare prin cercetare si inovare post-doctorala in inginerie si stiinte aplicate – PRiDE, Contract nr. POSDRU/89/1.5/S/57083, subcontract 8220/17.06.2010, valoare 128000 RON, Director de proiect: Prof. dr. ing. Adian Graur **A_3_1_Contracte\contract Pride**	30.4
	Total S2=	150.712
	S1+S2=	**150.712**

A3.2 Prezentarea/Diseminarea rezultatelor: prezenţă la manifestări ştiinţifice în calitate de autor/co-autor de lucrări, profesor invitat			**N5=Număr**
Nr.crt.	Congrese/ conferinţe/ workshopuri internaţionale, profesor invitat la universităţi/ institute din străinătate A_3_2_conferinte Alaci	***Lucrări susţinute***	**N5**
1.	IMT Oradea 2021, Annual Session of Scientific Papers, Felix SPA, May 27-28 May 2021,	S. Alaci, F.-C. Ciornei, C.-C. Suciu and I.-C. Romanu, The effect of structural aspect for planar systems with 2DOF upon the stability of motion	1

	Faculty of Management and Technological Engineering, University of Oradea	F.-C. Ciornei, S. Alaci, P. Bulai and I.-C. Romanu, A comparative experimental study for dry and wet collisions,	
2.	THE 9th INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING ACME 2020 JUNE 4 – 5, 2020 IAŞI organized by Technical University "Gheorghe Asachi" IAŞI	A Alaci, F-C Ciornei and F Buium, Design and analysis of a new bicontact cam mechanism	1
		F C Ciornei, S Alaci and I Doroftei, The conjugate profile of the circular teeth of a spur gear. Part I: Problem statement	
		S Alaci, F-C Ciornei and I Doroftei, The conjugate profile of the circular teeth of a spur gear. Part II: Problem solution	
		F C Ciornei, S Alaci, C Bujoreanu, A Model of the Effect of Dry Friction on the Behaviour of a Dynamical System	
3.	International Conference on Applied Sciences, ICAS2019, May 9-11, 2019, Hunedoara, organized by University Politehnica Timisoara, University of Banja Luka	S Alaci, F C Ciornei, R D Pentiuc,M C Ciorneiand I C RomanU, Upon the efficiency of gear transmissions	1
		S Alaci, F C Ciornei, R D Pentiuc,M C Ciorneiand I C Romanu Indetermination versus incompatibility in dynamic systems with dry friction	
4.	IMT Oradea 2019, Annual Session of Scientific Papers, Felix SPA, 30-31 May 2019, Faculty of Management and Technological Engineering, University of Oradea	**S Alaci,** R D Pentiuc, I Doroftei and F C Ciornei, USE OF DUAL NUMBERS IN KINEMATICAL ANALYSIS OF SPATIAL MECHANISMS. PART II: APPLYING THE METHOD FOR THE GENERALISED CARDAN MECHANISM	1
		F C Ciornei1, **S Alaci,** R D Pentiuc and I Doroftei, USE OF DUAL NUMBERS IN KINEMATICAL ANALYSIS OF SPATIAL MECHANISMS. PART I: PRINCIPLE OF THE METHOD	
5.	ACME 2018, The 8th International Conference on Advanced Concepts in Mechanical Engineering, Mechanical Engineering Faculty, "Gheorghe Asachi" Technical University of Iasi, Romania, June 07 - 08, 2018.	**Alaci Stelian,** Ciornei Florina-Carmen, Bujoreanu Carmen, Ciornei Mariana-Catalina, Acsinte Ilie Lucian, Finding the coefficient of rolling friction using a pericycloidal pendulum	
		S Alaci, F C Ciornei, F Buium, IC Romanu, OT Rusu, Grapho-analytical kinematic analysis for plane cam mechanisms and follower with finite curvature	1
6.	IMT Oradea 2018, Annual Session of Scientific Papers, Felix SPA, 31 May-1 June, Faculty of Management and Technological Engineering, University of Oradea	**Alaci Stelian,** Ciornei Florina-Carmen, Siretean ST, MC Ciornei, Graphical-Analytical Analysis of the Mechanism with Rotating Cam and Flat-Face Follower	1
		Alaci Stelian, Ciornei Florina-Carmen, Siretean S-T, MC Ciornei, Ţibu Gabriel Andrei, Dynamical analysis of a 2 DOF spatial pendulum	
7.	Modtech 2018, The 6-th International Conference Modern Technologies in Industrial Engineering, June 13-16, 2018, Constanta	**Stelian Alaci,** Florina-Carmen Ciornei, Ionut-Cristian Romanu & Mariana-Catalina Ciornei, Evaluation of Spinning Friction from a Thrust Ball Bearing	
		Stelian Alaci, Florina-Carmen Ciornei, Ionut-Cristian Romanu & Mariana-Catalina Ciornei, Upon the Relationship between Rolling Friction and Sliding Friction	1
8.	PRASIC 2018, The Xth International Conference PRASIC, 8-9 nov 2018, Transilvania University of Brasov	**S Alaci,** R-D Pentiuc, F-C Ciornei, I-C Romanu, L Irimescu and F Buium Employment of hyper-cycloidal oscillatory motion for finding the coefficient of rolling friction. Part 1: Theoretical model	

		S Alaci, R-D Pentiuc, F-C Ciornei, I-C Romanu, S-T Siretean and M-C Ciornei Method for simultaneous estimation of rolling and spinning friction in a higher pair	1
9.	BULTRIB '18 The 13th International Conference BULTRIB '18, 25-27 October 2018, Sofia, Bulgaria, Society of Bulgarian Tribologists, FIT – Technical University of Sofia	**Stelian ALACI**, Luminta IRIMESCU, Florina Carmen CIORNEI, Mara KANDEVA, Device and method for simultaneous determination of rolling and spinning friction in a concentrated contact	1
10.	SYROM 2017 The 12 th IFToMM International Symposium on Science of Mechanisms and Machines SYROM'2017 , November 02 – 03, 2017 , IASI	**S. Alaci,** FC Ciornei, EV Alexandru, C Filote, Kinetostatic of Knife Edge Translating Follower under Dry Friction Conditions	
		S. Alaci, F. Buium, F. C. Ciornei, D. I. Dobincă, Tetrapod coupling	1
11.	ICAS 2017 International Conference on Applied Science – ICAS 2017, 10-12 May, Hunedoara, Romania	**S. Alaci,** F C Ciornei, I C Românu and M C Ciornei, The importance of correct specification of tribological parameters in dynamical systems modelling	1
12.	IMANEE 2017 21 st International Conference Innovative Manufacturing Engineering & Energy, 24-27 May, 2017, Iasi	**Stelian Alaci,** Constantin Filote, Daniel Fodorcan, Erwin - Vasile Alexandru, Dumitru Amarandei and Florina Carmen Ciornei. Damped periodic motions used in the study of the drag coefficient	1
		Stelian Alaci, Luminita Irimescu, Marian Adrian Popescu, Daniel Fodorcan, Dumitru Amarandei and Florina Carmen Ciornei. Testing the assumption of linear dependence between the rolling friction torque and normal force	1
13.	TEHNOMUS 2017 The 19th International Conference TEHNOMUS , New Technologies and Products in Machines Manufacturing Technologies, 12-13 May 2017, Stefan cel Mare University of Suceava	**Stelian Alaci,** Florina-Carmen Ciornei, Dumitru Amarandei, Marius Băeşu, Dumitru Mihăilă, On direct coupling of two shafts. Part1: structural considerations	1
14.	IIS 2016 Innovatice Ideas in Science, Universitatea Tehnica Cluj-Napoca-Centrul Universitar Nord din Baia Mare, 10-11 nov 2016	**S. Alaci,** F C Ciornei, A Ciogole and M C Ciornei, Estimation of Coefficient of Rolling Friction by the Evolvent Pendulum Method	1
15.	IMANEE 2016 20 th International Conference Innovative Manufacturing Engineering & Energy, 23-25.09.2016, Technological Education Institute of West Macedonia, Kozani, Greece	**Stelian Alaci,** Mariana Catalina Ciornei, Florina Carmen Ciornei, Constantin Filote and Dumitru Amarandei, Method and device for dynamic modeling of rubbery materials applied to human soft tissues. Part I: determination of mechanical characteristics and dynamic model proposal	1
		Stelian Alaci, Mariana Catalina Ciornei, Florina Carmen Ciornei, Constantin Filote and Ionut Cristian Romanu Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part II: device and experimental results	
16.	PRASIC 2016 IXth International Conference on Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation – PRASIC 2016, 10-11 Nov 2016, Transilvania University of Brasov	**Alaci, S.,** Ciornei F.C., Mihai, F., Amarandei D., Siretean, S. T.: Some considerations concerning axodes outlining during the motion of bodies with multiple contacts	1
		Siretean, S.T., **Alaci,** S., Ciornei, F.C., Musca, I.: Hertzian point contact. sliding and rolling aspects	

17.	ACME 2016 The 7th International Conference on Advanced Concepts in Mechanical Engineering Dimitrie Mangeron Jubilee –9-10 June 2016 Iasi	**S Alaci,** F C Ciornei, C Filote, I C Romanu, C P Nastaca, Determination of the coefficient of friction using spinning motion **S Alaci,** M C Ciornei, C Filote, F C Ciornei, M C Gradinariu, Considerations upon applying tripodic coupling in artificial hip joint	1
18.	ROTRIB 2016 The 13 th International Conference on Tribology, September 22-24, 2016 – Dunarea de Jos University, Galati	**S. Alaci,** F. C .Ciornei, D. Amarandei, L. Irimescu, I. C. Romanu and M. A. Rotar, The effect of transport velocity upon spin torque	1
19.	IMANE 2015 Innovative Manufacturing Engineering International Conference, "Gheorghe Asachi" Technical University Iaşi Department of Machine Manufacturing Technology 20-22 May 2015, Iaşi	**ALACI** Stelian, CIORNEI Florina-Carmen, FILOTE Constantin and ROMÂNU Ionuţ-Cristian, Analysis of Postimpact Plastic Indentation Profiles **ALACI** Stelian, CIORNEI Florina and FILOTE Constantin, Rotating Cam and Knife Edge Follower Mechanism Optimisation from Cam Curvature Constraints	1
20.	OPROTEH 2015 The XI International Conference Constructive and Technological Design Optimization in the Machines Building Field 4-6 June 2015, Bacau	**Alaci Stelian,** Ciornei Florina Carmen Kinematics of mechanism with rotating cam and flat face oscillating follower. Part I: analytical solutions **Alaci Stelian,** Ciornei Florina Carmen, Kinematics of mechanism with rotating cam and flat face oscillating follower. Part II: numerical and experimental methods	1
21.	IMT ORADEA 2015 Annual Session of Scientific Papers, 28-30 May Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian ALACI,** Florina Carmen CIORNEI, Equivalence between ball-rotating disc impact and ball-inclined plane impact. Part I: equivalence constraints, plastic imprints comparison **Stelian ALACI,** Florina Carmen CIORNEI; A consequence of post-impact radial profile shape of indentation. Part II: a possible explanation	1
22.	Tehnomus 2015 THE 18 th INTERNATIONAL SCIENTIFIC CONFERENCE „TEHNOMUS", May 8-9, 2015 „Ştefan cel Mare" University of Suceava	**Stelian ALACI,** Florina Carmen CIORNEI, Dumitru AMARANDEI, Proposed method for undercutting phenomenon identification in mechanisms **Stelian ALACI,** Florina Carmen CIORNEI, Dynamic consequences of unparallelism of axes in mechanisms with oscillating follower	1
23.	IMT Oradea 2014 Annual Session of Scientific Papers, 29-31 May 2014, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian ALACI,** Florina Carmen CIORNEI, Estimation of angular velocity subsequent to a plane impact **Stelian ALACI,** Florina Carmen CIORNEI, Comparative analysis of indentations from spatial impact with plastic deformations	1
24.	ACME 2014 The 6th International Conference on Advanced Concepts in Mechanical Engineering, 12-13 June 2014, "Gheorghe Asachi" Technical University, Iasi	**ALACI Stelian,** CIORNEI Florina Carmen, FILOTE Constantin, Some Consideration Regarding the Models for Collisions with Plastic Indentation	1

25.	IMT Oradea 2013 Annual Session of Scientific Papers, 30 May -1 June 2013, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**ALACI Stelian,** The effect of random geometrical and mechanical parameters in impact experiments	1
		ALACI Stelian, Kinematic discontinuities effect upon gimbals working	
		Stelian ALACI, Some remarks upon using shock sensors in dynamical systems	
26.	Tehnomus 2013 THE 17 th INTERNATIONAL SCIENTIFIC CONFERENCE „TEHNOMUS", May 17-18, 2013 „Ştefan cel Mare" University of Suceava	**Stelian ALACI,** Carmen-Florina CIORNEI, Dumitru AMARANDEI, Ionuţ ROMÂNU, Consequences of energetic hypothesis used in modeling the impact of compliant bodies	1
27.	DIPRE 2012 Diagnosis and prediction in mechanical engineering systems, 31 May-1 June 2012, Dunarea de Jos University, Galati	**Stelian Alaci,** FC Ciornei, D Cerlincă, Aspects regarding shafts coupling using elastic elements	1
		Stelian Alaci, FC Ciornei, C Filote, L Irimescu, S Pătraş-Ciceu Considerations regarding linkages used for shafts coupling	
28.	Murphy's 2012 6th International Workshop on Multi-Rate Processes and Hysteresis - MURPHYS 2012, Suceava, May 21st - 24th	**S. Alaci,** F. Ciornei, C. Filote, G. Frunză, L. Irimescu, Experimental Highlight of Hysteresis Phenomenon in Rolling Contacts	1
		S. Alaci, D. Cerlincă, F. Ciornei, C. Filote, G Frunza Method of Integration for Equation of Two Elastic Balls Dumped Collision	
29.	Bultrib 2012 International Scientific Conference of the Society of Bulgarian Tribologist, 19-20 October, Sofia, Bulgaria	**Stelian Alaci,** Constantin Filote, Florina Carmen Ciornei, Ionut Romanu, Valentin Dan Amarandei, Some remarks upon experimental finding of coefficient of restitution	1
30.	VAREHD 2012 16 th International Conference on EHD Lubrication and Traction, Stefan cel Mare University, 25-27 October 2012, Suceava	**Stelian ALACI,** Florina Carmen CIORNEI, Ionuţ Românu , Dan Valentin Amarandei, Can the collision between a free falling ball and a rotating disk be regarded as a plane impact?	1
31.	SYMECH 2011 4 th SYMPOSIUM WITH INTERNATIONAL PARTICIPATION - Durability and Reliability of Mechanical Systems , SYMECH 2011, 20-21 May Târgu Jiu	**Stelian Alaci,** Florina Carmen Ciornei , Dumitru Amarandei, Constantin Filote , Simion Pătraş-Ciceu , Dorel Prodan , Some aspects regarding computer aided design of cam mechanisms with flat face oscillating follower	1
		Stelian Alaci, Florina Carmen Ciornei, Dumitru Amarandei, Constantin Filote, Simion Pătraş-Ciceu, Dorel Prodan, Shock protection device for rotation sensors	
32.	IMT Oradea 2011 Annual Session of Scientific Papers, 26-28 May 2011, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian Alaci,** Florina Carmen Ciornei, Dumitru Amarandei, Constantin Filote, Delia-Aurora Cerlincă, Sergiu Spînu Dynamic aspects of damped elastic impact. Part 1: influence of coefficient of restitution	1
		Stelian Alaci, Florina Carmen Ciornei, Dumitru Amarandei, Constantin Filote, Luminiţa Irimescu, Sergiu Spînu, Dynamic aspects of damped elastic impact. Part 2: influence of initial indentation velocity	

33.	SYMECH 2010 Durability and Reliability of Mechanic al Systems, 3rd symposium with international participation, Târgu-Jiu, May, 20-21, 2010, University of Târgu Jiu	**Stelian Alaci,** FC Ciornei, D Amarandei, CFilote, D Cerlinca, L Irimescu, Stress concentration due to a spherical void under hertzian contact	1
		Stelian Alaci, FC Ciornei, D Amarandei, CFilote, D Cerlinca, L Irimescu, Numerical versus analytical method in finding stress state in mechanisms elements	
34.	ROTRIB 2010 11-th International Conference on Tribology, 4-6 November, Iasi	**Alaci S.,** Diaconescu E., Ciornei F.C., Irimescu L., Cerlincă D., Method and device for study of friction	1
35.	IMT Oradea 2010 Annual Session of Scientific Papers, 27-29 May 2010, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Alaci Stelian**, Amarandei Dumitru, Filote Constanin, Ciornei Florina Carmen, Cerlinca Delia Aurora, Kinematics effects due to replacement of spherical joint by revolute joints in RSRC mechanism	1
		Alaci Stelian, Amarandei Dumitru, Filote Constantin, Ciornei Florina-Carmen, Irimescu Luminita, Comparative study between analytical and experimental results for RSRC mechanism kinematics	
36.	ACME 2010 The 4th International Conference on Advanced Concepts in Mechanical Engineering, 17-18 June 2010, "Gheorghe Asachi" Technical University, Iasi	**Stelian Alaci,** Florina Carmen Ciornei, Constantin Filote, Dumitru Amarandei, Luminita Irimescu Delia Cerlinca, Numerical versus Analitycal Results in Kinematics of RCCC Mechanism	1
		Stelian Alaci, Florina Carmen Ciornei, Constantin Filote, Dumitru Amarandei, Luminita Irimescu Delia Cerlinca, FEM Analysis of Wobble Plate Mechanism	
37.	VAREHD 2010 15 th International Conference on EHD Lubrication and Traction, Stefan cel Mare University, 6-8 May 2010, Suceava	**Alaci Stelian**, Florina Ciornei, Luminiţa Irimescu, Delia Cerlincă, Ovidiu Rusu NUMERICAL MODELLING OF 3D IMPACT	1
38.	Syrom 2009 10th IFToMM International Symposium on Science of Mechanisms and Machines, held in Brasov, Romania, october 12-15, 2009	**S. Alaci,** F.C. Ciornei L. Irimescu, D. Amarandei Experimental aspects concerning self-locking angle	1
		S. Alaci, F.C. Ciornei, D. Amarandei, D. A. Cerlincă Upon applying closed contours method in plane mechanisms with higher pairs	
39.	Newtech 2009 Conferinta Internationala Noi Tehnologii in Fabricatie – Newtech 23-25 Sept 2009, Universitatea "Dunarea de Jos" Galaţi	**Alaci Stelian,** Ciornei Florina, Amarandei Dumitru, Filote Constantin, Stress state in an elastic bent plane with two identical circular holes	1
40.	IMT Oradea 2009 Annual Session of Scientific Papers, 27-29 may 2009, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian ALACI,** Florina Carmen Ciornei, Dumitru Amarandei, Constantin Filote, Delia-Aurora Cerlincă, Analytical position analysis for RSRC mechanism	1

		Stelian ALACI, Florina Carmen Ciornei, Dumitru Amarandei, Constantin Filote, Delia-Aurora Cerlincă, Optimizing the assembling of radial spherical plain bearing applied to RSRC mechanism	
41.	ACME 2008 The 3th International Conference on Advanced Concepts in Mechanical Engineering, 5-6 June 2008, "Gheorghe Asachi" Technical University, Iasi	**Stelian Alaci,** Florina Carmen Ciornei, Simion Patraş-Ciceu, Aspects Concerning RCCC Spatial Mechanisms Kinematics **Stelian Alaci**, Florina Carmen Ciornei, Luminiţa Irimescu, Experimental Evidence of Stabilization Effect for a Watt Type Angular Velocity Governor	1
42.	Varehd 2008 14 th International Conference on EHD Lubrication and Traction, Stefan cel Mare University, 10-11 Oct 2008, Suceava	**Stelian ALACI**, Florina Carmen CIORNEI, Luminiţa IRIMESCU & Delia Aurora CERLINCĂ, Test rig for self-locking study	1
43.	IMT Oradea 2008 Annual Session of Scientific Papers, 29-30 may 2008, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian Alaci**, Dumitru Amarandei, Florina-Carmen Ciornei, Simion Pătraş-Ciceu, Simulation of gear rack generation of involute spur gears **Stelian Alaci,** Florina-Carmen Ciornei, Gheorghe Frunză, Delia-Aurora Cerlincă, Stress concentration factor of dental filling	1
44.	IMT Oradea 2007 Annual Session of Scientific Papers, 31 May-1 June 2007, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian ALACI**, Emanuel DIACONESCU Fourier's series in bipolar co-ordinates corresponding to polynomial Cartesian elastic potential **Stelian ALACI,** Florina Carmen CIORNEI, Simion PĂTRAŞ CICEU, A new type of cam mechanism	1
45.	IMT Oradea 2006 Annual Session of Scientific Papers, 25-26 May 2006, Felix SPA, Faculty of Management and Technological Engineering, University of Oradea	**Stelian Alaci,** Emanuel N. Diaconescu Stress state in a bent plane with two different circular holes (the axes of centers is normal to the neutral axis of the plane) **Stelian Alaci,** Ovidiu Rusu, Computer aided design ofradial cams and oscillating roller follower	1
46.	ACME 2006 The 2nd International Conference on Advanced Concepts in Mechanical Engineering, 16-17 June 2006, "Gheorghe Asachi" Technical University, Iasi	**Stelian Alaci,** Florina Carmen Ciornei, Fictive Follower Method **Stelian Alaci,** Luminita Irimescu, Caracteristiques concernant le mouvement relatif dans une liaison superieure entre deux cylindres avec des axes non-paralleles	1
47.	Prasic 2006 PRASIC'06, Simpozion naţional cu participare internaţională, Universitatea Transilvania, Catedra Design de Produs şi Robotică, BRAŞOV, 9-10 Noiembrie 2006	**Stelian ALACI,** Emanuel N. DIACONESCU: Stress state in a bent elastic plane with two dissimilar circular holes (axis of centres normal to the neutral line) **Stelian ALACI,** Computer aided design of cam mechanisms with translating roller follower	1
48.	Viena 2001 2nd World Tribology Congress, 3-7 Sept, Vienna, 2001 Austria	**S. S. Alaci,** E. N. Diaconescu, concentrated force acting on the boundary of an elastic half-plane with circular hole **S. S. Alaci,** E. N. Diaconescu, Stresses induced by a semi-elliptic traction applied on the boundary of an elastic half-plane containing a circular hole	1

49.	Varehd 2006 13 th International Conference on EHD Lubrication and Traction, Varehd 12, 6-7 Oct 2006, Stefan cel Mare University, Suceava	**S. S. Alaci,** RP Glovnea, FC Ciornei, Aspects of motion transmission between two axisimmetric bodie	1
		S. S. Alaci, E Diaconescu, C Mares, Stress state in cerruti's plane problem for an elastic half-plane with a circular hole	
50.	Varehd 2004 12 th International Conference on EHD Lubrication and Traction, Varehd 12, 8-9 Oct 2004, Stefan cel Mare University, Suceava	**Stelian Alaci,** Emanuel Diaconescu & Ilie Muscă, Analytical and FEM investigations of an elastic plane containing an elliptical hole	1
		Stelian Alaci, Emanuel Diaconescu, Gheorghe Frunză & Luminita Irimescu, Etude photoelastique preliminaire pour un contact en roulement	
		Stelian Alaci, Emanuel Diaconescu & Florina Carmen Ciornei, Determination of collision coefficient for collinear impact of two spheres	
51.	Varehd 2003 11 th International Conference on EHD Lubrication and Traction, Varehd 11, 18-19 April 2003, Stefan cel Mare University, Suceava	**S. Alaci,** E. Diaconescu, Stress state in a bending elastic plane with two identical holes (centre axis along neutral axis)	1
		S. Alaci, E. Diaconescu, Stress state in a bending elastic plane with two identical holes (holes symmetrically placed with respect to the neutral axis)	
		S. Alaci, Evaluation of relative velocity and curvature radius in rotating cam mechanisms with eccentric sliding follower	
52.	Varehd 2000 10 th International Conference on EHD Lubrication and Traction, Varehd 10, 6-7 Oct October 2000 , Stefan cel Mare University, Suceava	**Stelian Alaci** & Emanuel Diaconescu, Series development in bipolar co-ordinates of Boussinesq and Cerruti potentials	1
		Stelian Alaci & Emanuel Diaconescu, The stress functions for the combined Boussinesq - Cerruti problem in the case of a half-plane containing a circular hole	
		Stelian Alaci & Emanuel Diaconescu, Determination of the stress state in a half-plane containing a circular hole, loaded by a point force on the bounding straight line	
		Stelian Alaci & Emanuel Diaconescu, Upon superposition principle applied to a half-plane containing a circular hole, loaded on the bounding straight line	
53.	Varehd 1998 9 th International Conference on EHD Lubrication and Traction, Varehd 9, 5-6 June 1998, Stefan cel Mare University, Suceava	**Stelian Alaci,** The state of the art in the contact of bodies with cavities and inclusions	1
		Stelian Alaci, The state of the art in the contact of multilayered bodies	
		Total N5	**53**

A3.3 Citări în publicații BDI[5](se exclud autocitările)			
Nr.crt.	C1 = numărul de citări, S_{FI} = suma factorilor de impact al publicațiilor WOS în care apar citările A_3_3_citari_inclusiv 2018		C=C1+S_{FI}
1	*articol citat*: F C Ciornei, **S Alaci,** V I Ciogole and M C Ciornei, Valuation of coefficient of rolling friction by the inclined plane method , Innovative Ideas in Science 2016 IOP Conf.	*citare*: Identification and characterization of the out-of-plane resonance in a dielectric elastomer to drive an agile robotic cube Chao Tang, Bo Li, Wenjie Sun, Zhiqiang Li, and Hualing Chen Journal of Applied Physics 122, 165104 (2017); (IF 2.176)	1+2.176

	Series: Materials Science and Engineering 200 (2017) 012006 doi:10.1088/1757-899X/200/1/012006	*citare:* A speedy, amphibian, robotic cube: Resonance actuation by a dielectric elastomer, Chao Tang, Bo Li, Hongbin Fang, Zhiqiang Li, Hualing Chen, Sensors and Actuators A: Physical, https://doi.org/10.1016/j.sna.2017.12.003, 0924-4247/©2017, Sensors and Actuators A 27 2018) 1–7 (IF 2.311)	1+2.311
		citare: Pre-service teachers' conceptual understanding of rolling friction coefficient Puspita Septim Wulandari, C. Cari, Nonoh Siti Aminah, and Dewanta Arya Nugraha Citation: AIP Conference Proceedings 2014, 020060 (2018); doi: 10.1063/1.5054464	1
2	*articol citat* **S. Alaci,** F. C. Ciornei, C. Filote, Mechanika, 19/5, 2013, Considerations upon a New Tripod Joint Solution,	*citare in:* Slice coherence in a query-based architecture for 3D heterogeneous printing,by U Yaman, N Butt, E Sacks, C Hoffmann, Computer Aided Design, 75-76, p 27-38 June 2016 Elsevier, FI=2.947	1+2.947
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4	*articol citat* Irimescu, L., Ciornei, F. C., **Alaci Stelian**, Cerlinca, D. A., 2010, "A Model for Predicting the Micro-Slip Zone on a Fretting Contact Interface," Ann. Oradea Univ., Fascicle Manage. Technol. Eng., 9(19), pp. 1.48–1.54. Available at: http://imtuoradea.ro/auo.fmte/files-2010-v1/MECANICA/Irimescu%20Luminita%20L1.pdf	*citare* Zang X et al, Tangential Damping and its Dissipation Factor Models of Joint Interfaces Based on Fractal Theory With Simulations, Journal of Tribology JANUARY 2014, Vol. 136 / 011704-1	1+1.787
		citare: Shi-bo Wang, Sha Zhang ,Yong Mao, Torsional Wear Behavior of MC Nylon Composites Reinforced with GF: Effect of Angular Displacement, Tribol Lett (2012) 45:445–453 DOI 10.1007/s11249-011-9904-5v	1+2.182
		citare S Wang, B Cao, B Teng - Torsional tribological behavior of polytetrafluoroethylene composites filled with hexagonal boron nitride and phenyl p-hydroxybenzoate under different angular, Industrial Lubrication and Tribology, 2015 - emeraldinsight.com	1+0.763
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6	*articol citat* **Stelian Alaci**, FC Ciornei, D Amarandei, C Filote, S Pătraş-Ciceu, D Prodan, - Some aspects regarding computer aided design of cam mechanisms with flat face oscillating follower, Fiability & Durability no 1(7)/ 2011, Târgu Jiu, ISSN 1844 – 640X, pp 65-70, http://www.utgjiu.ro/rev_mec/mecanica/pdf/2011-01/12_**Alaci**.pdf	*citare* Djeddou, Smata and Ferhat, Optimization and a reliability analysis of a cam-roller follower mechanism, Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol.12, No.7 (2018) [DOI: 10.1299/jamdsm.2018jamdsm0121]	1+0.503
7	*articol citat* **Stelian Alaci,** D Amarandei, FC Ciornei, S Pătraş-Ciceu, Simulation of gear rack generation of involute spur gears, 2008, Annals of the Oradea University. FMTE, Vol 7, 1172-1180	*citare* Effects of the design parameters of involute gears generated by rack-cutters, G Figliolini, P Rea - Gear Conference 2014: 26th–28th August, 2014 - books.google.com, Scopus	1
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		Design of simple rotational viscometers for physics learning media based on microcontroller and phototransistor sensor, AIP Conference Proceedings 2320, 050017 (2021); https://doi.org/10.1063/5.0037807 Yuliana Sari Yanuar Hamzah *and* Lazuardi Umar	1
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	Articol citat: Alaci S., Kalitchin Z., Kandeva M., Ciornei F.C., Method and device for the study of damping of environmental friendly foam type materials, Journal of Environmental Protection and Ecology, 2020, vol 21, issue 4, pp 1298-1313, EID 2-s2.0-85095731016, IF2019=0.692 IF2019=0.692, 6*0.892/4	Paulo Flores, Contactmechanics for dynamical systems: a comprehensive Review, Multibody System Dynamics, https://doi.org/10.1007/s11044-021-09803-y	1+3.109
		Total citari	**79.652**

Sinteza punctajelor

Condiţii minimale şi obligatorii					
Domeniul de activitate		**Indicatori**	**Profesor**	**Realizat**	
Activitatea didactică/ profesională (A1)	A1.1	N1	**2**	**2**	criteriu îndeplinit
		N1.1	**1**	**2**	criteriu îndeplinit
		N1.3	**1**	**1**	criteriu îndeplinit
	A1.2	N2	**4**	**37**	criteriu îndeplinit
		N2.1	**2**	**30**	criteriu îndeplinit
Activitatea de cercetare (A2)	A2.1+A2.3	P1+P2	**10**	**15.563**	criteriu îndeplinit
		P1	**6**	**15.038**	criteriu îndeplinit
	A2.2	N3	**10**	**58**	criteriu îndeplinit
		N3.1	**5**	**36**	criteriu îndeplinit
	A2.4+A2.5	N4	**2**	**4**	criteriu îndeplinit
		N4.3	**1**	**4**	criteriu îndeplinit
Recunoaşterea si impactul activitaţii (A3)	A3.1	S1+S2	**50**	**150.712**	criteriu îndeplinit
	A3.2	N5	**10**	**53**	criteriu îndeplinit
	A3.3	C	**25**	**79.652**	criteriu îndeplinit

$P1 = P1.1 + P1.2 + P1.3 + P1.4$
$P2 = P2.1 + P2.2$
$N1 = N1.1 + N1.2$
$N2 = N2.1 + N2.2 + N2.3$
$N3 = N3.1 + N3.2$
$N4 = N4.1 + N4.2 + N4.3 + N4.4$

Data: 10.12.2021 Conf.dr.ing. Stelian ALACI