Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică

REZOLUŢIA

Comisiei de analiză a dosarelor candidaţilor înscrişi la concursul pentru ocuparea posturilor didactice vacante la Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică cu privire la verificarea informaţiilor din Fişa de verificare

Departamentul: Autovehicule Rutiere şi Transporturi
Postul: 14 conferenţiar, din Statul de Funcţii al departamentului pentru anul universitar 2020 – 2021

Candidat: Fechete Tutunaru Lucian

Dosarul de concurs
Îndeplineşte X
Nu îndeplineşte
Standardele minimale pentru ocuparea postului de: conferenţiar

Observaţii: _

Comisia de analiză a dosarelor pentru ocuparea posturilor didactice: conferenţiar

Prof. dr. ing. Filip Nicolae _

Prof. dr. ing. Bălan Mugur ____

Prof. dr. ing. Brişan Cornel ___

Fişa de verificare a îndeplinirii standardelor minimale CNATDCU

Comisia: Inginerie Mecanică, Mecatronică şi Robotică

Nume, Prenume Fechete-Tutunaru Lucian V.
Funcţia didactică vizata **Conferenţiar**
Departamentul **Autovehicule Rutiere si Transporturi**
Facultatea **Autovehicule Rutiere, Mecatronica si Mecanica**

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	2.00	0.00	Indeplinit
		N1.3	3.00	1.00	Indeplinit
	A.1.2	N2	11.00	3.00	Indeplinit
		N.2.1	11.00	1.00	Indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	8.39	5.00	Indeplinit
		P1	8.39	3.00	Indeplinit
	A2.2	N3	18.00	8.00	Indeplinit
		N3.1	6.00	3.00	Indeplinit
	A2.4+A2.5	N4	7.00	1.00	Indeplinit
		N43	0.00	0.00	Indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	108.16	10.00	Indeplinit
	A3.2	N5	10.00	5.00	Indeplinit
	A3.3	C	126.70	10.00	Indeplinit
		Total	**294.25**	**45.00**	

Data: 22.7.2020

Cad'

S.L. Dr. Ing. Lu .e-Tutunaru

Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică

REZOLUŢIA

Comisiei de analiză a dosarelor candidaţilor înscrişi la concursul pentru ocuparea posturilor didactice vacante la Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică cu privire la verificarea informaţiilor din Fişa de verificare

Departamentul: Inginerie Mecanică
Postul: 19 Şef lucrări, din Statul de Funcţii al departamentului pentru anul universitar 2020 – 2021

Candidat: Rad Ioana

Dosarul de concurs
Îndeplineşte X
Nu îndeplineşte
Standardele minimale pentru ocuparea postului de: sef lucrari

Observaţii: _

Comisia de analiză a dosarelor pentru ocuparea posturilor didactice: şef lucrări

Prof. dr. ing. Filip Nicolae _____

Prof. dr. ing. Bălan Mugur _____

Prof. dr. ing. Brişan Cornel _____

Anexa 4

Rezoluţie Comisie de verificare

FISA DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE

Candidat Takacs (căs. Rad) Ioana Alexandra, înscris la concursul pentru ocuparea postului de **Şef Lucrări,** la Facultatea Autovehicule rutiere, Mecatronică şi Mecanică, Departament Inginerie Mecanică, poziţia nr. 19.

Criteriu / subcriteriu	Evaluare	Document doveditor
1. Activitatea didactică		
1.a. autor / coautor / lucrări didactice publicate la edituri recunoscute	-	(se regasesc in lista de lucrari)
1.b. autor / coautor / lucrări de laborator redactate şi realizate practic	3	(se regasesc in lista de lucrari)
2. Activitatea ştiinţifică		
2. a. autor / coautor / lucrări ştiintifice publicate (conform criteriilor minimale aprobate de Senat)	15	(se regasesc in lista de lucrari)
2. b autor / coautor / alte lucrări (proiecte, studii, etc.)	-	(se regasesc in lista de lucrari)
2. c. participări în colective de cercetare	1	(se regasesc in lista contractelor de cercetare)
3. Activitate în folosul comunităţii academice		
3. a. activitate în comisii permanente la nivel de departament / facultate / universitate	nu	Atestat departament / facultate/universitate
3. b. membru în structuri ale unor organizaţii naţionale şi internaţionale	nu	Atasati copii dupa documente doveditoare

Data_____ Semnătura__(candidat)_____

Instrucţiuni:

- Candidatul completează coloana a II-a (evaluare), unde este cazul.

- Candidatul va atasa, dacă este cazul, documente doveditoare, în xerocopie, pentru acele criterii a căror evaluare nu este posibilă pe baza conţinutului dosarului.

Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică

REZOLUŢIA

Comisiei de analiză a dosarelor candidaţilor înscrişi la concursul pentru ocuparea posturilor didactice vacante la Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică cu privire la verificarea informaţiilor din Fişa de verificare

Departamentul: Inginerie Mecanică
Postul: 33 asistent din Statul de Funcţii al departamentului pentru anul universitar 2020 – 2021

Candidat: Vilău Cristian

Dosarul de concurs
Îndeplineşte X
Nu îndeplineşte
Standardele minimale pentru ocuparea postului de: asistent

Observaţii: _

Comisia de analiză a dosarelor pentru ocuparea posturilor didactice:

Prof. dr. ing. Filip Nicolae ___

Prof. dr. ing. Bălan Mugur _____

Prof. dr. ing. Brişan Cornel _____

Anexa 4

Rezoluție Comisie de verificare

FISA DE VERIFICARE A INDEPLINIRII STANDARDELOR MINIMALE

Candidat Vilău Cristian, înscris la concursul pentru ocuparea postului de Asistent universitar la Facultatea Autovehicule Rutiere, Mecatronică şi Mecanică, Departament Inginerie Mecanică, poziţia 33

Criteriu / subcriteriu	Evaluare	Document doveditor
1. Activitatea didactică		
1.a. autor / coautor / lucrări didactice publicate la edituri recunoscute	Numar lucrari	(se regasesc in lista de lucrari)
1.b. autor / coautor / lucrări de laborator redactate şi realizate practic	Numar lucrari	(se regasesc in lista de lucrari)
2. Activitatea ştiinţifică		
2. a. autor / coautor / lucrări ştiintifice publicate (conform criteriilor minimale aprobate de Senat)	Numar lucrari	(se regasesc in lista de lucrari)
2. b autor / coautor / alte lucrări (proiecte, studii, etc.)	Numar lucrari	(se regasesc in lista de lucrari)
2. c. participări în colective de cercetare	Numar	(se regasesc in lista contractelor de cercetare)
3. Activitate în folosul comunităţii academice		
3. a. activitate în comisii permanente la nivel de departament / facultate / universitate	Da / nu	Atestat departament / facultate/universitate
3. b. membru în structuri ale unor organizaţii naţionale şi internaţionale	Da / nu	Atasati copii dupa documente doveditoare

Data_25.05.2020_ Semnătura__(candidat)___

Instrucţiuni:

- Candidatul completează coloana a II-a (evaluare), unde este cazul.

- Candidatul va atasa, dacă este cazul, documente doveditoare, în xerocopie, pentru acele criterii a căror evaluare nu este posibilă pe baza conţinutului dosarului.

Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică

REZOLUŢIA

Comisiei de analiză a dosarelor candidaţilor înscrişi la concursul pentru ocuparea posturilor didactice vacante la Facultatea de Autovehicule Rutiere Mecatronică şi Mecanică cu privire la verificarea informaţiilor din Fişa de verificare

Departamentul: Mecatronică şi dinamica maşinilor
Postul: 9 – conferenţiar, din Statul de Funcţii al departamentului pentru anul universitar 2020 – 2021

Candidat: Noveanu Simona

Dosarul de concurs
Îndeplineşte X
Nu îndeplineşte
Standardele minimale pentru ocuparea postului de: conferenţiar

Observaţii: _

Comisia de analiză a dosarelor pentru ocuparea posturilor didactice:

Prof. dr. ing. Filip Nicolae

Prof. dr. ing. Bălan Mugur _

Prof. dr. ing. Brişan Cornel

Fișa de verificare a îndeplinirii standardelor minimale CNATDCU

Comisia: Inginerie Mecanică, Mecatronică și Robotică

Nume, Prenume	NOVEANU Simona
Funcția didactică	Conferențiar
Departamentul	MDM
Facultatea	ARMM

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	2.00	0.00	Indeplinit
		N1.3	2.00	1.00	Indeplinit
	A.1.2	N2	5.00	3.00	Indeplinit
		N.2.1	5.00	1.00	Indeplinit
Activitatea de cercetare	A21+A2.3	P1+P2	9.91	5.00	Indeplinit
		P1	9.07	3.00	Indeplinit
	A2.2	N3	20.00	8.00	Indeplinit
		N3.1	7.00	3.00	Indeplinit
	A2.4+A2.5	N4	1.00	1.00	Indeplinit
		N43	0.00	0.00	Indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	204.34	10,00	Indeplinit
	A3.2	N5	23.00	5.00	Indeplinit
	A3.3	C	163.64	10.00	Indeplinit
		Total	**430.89**	**45.00**	

Cadru didactic,
S.L. Dr. Ing. NOVEANU Simona

Director Departament,
Prof. Dr. Ing. BARA Mircea

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	Noveanu, S.	1	Mecanisme cu bare. Analiza structurala si cinematica.	UTPRESS	2020	978-606-737-452-0	1.00
2	Noveanu, S.	1	Sisteme mecanice de precizie	UTPRESS	2020	978-606-737-432-2	1.00
3							0.00
							0.00
	Total						**2.00**

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							0.00
2							0.00
							0.00
	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	Noveanu Simona	www.didatec.ro	2013	1	1.00
2	Noveanu Simona	https://mdm.utcluj.ro/wp-content/uploads/2019/06/	2019	1	1.00
3					0.00
					0.00
	Total				**2.00**

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	Caracterizarea cuplelor flexibile simetrice. (L1)	2011	1.00
2	Caracterizarea cuplelor flexibile asimetrice. (L2)	2013	1.00
3	Compararea profilelor cuplelor flexibile. Materiale. (L3)	2014	1.00
4	Studiul mecanismelor compliante cu actuatori piezoelectrici. (L4)	2015	1.00
5	Caracterizarea mecanismleor compliante cu actuatori pneumatici. (L5)	2018	1.00
			0.00
			0.00
	Total		**5.00**

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

autor, co-autor

Nr.crt.	Autori	Nr. Autori	Titlul	Anul editarii	ISBN	Punctaj individual
1						0.00
						0.00
						0.00
	Total					**0.00**

N3.1 **Articole si publicatii BDI (neincluse in A2.1)**
prim autor sau autor corespondent

WOS *** Scopus ^^

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Punctaj individual		
1	Noveanu, S., Mandru, D., Ivan, A., Csibi, V.	4	Research Concerning the Ramp and Sinusoidal Command Signals of the Piezoelectric Miniactuators	Solid State Phenomena , Trans Tech Publications, doi:10.4028/www.scientific.net/ SSP.166-167.321/ ISBN 13: 978-3-908451-88-4	166	2010	321-326	1.00	***	
2	Noveanu, S., Csibi, V.I., Ivan, A.I., Mândru, D.	4	Design and Modelling a MiniSystem with Piezoelectric Actuation	New Trends in Mechanism Science. Analysis and Design, Editura Springer, DOI 10.1007/ISBN 978-90-481-9688-3	5	2010	125-133	1.00	***	
3	Noveanu, S., Mândru, D., Lungu, I., Csibi, V.	4	Numerical Analysis and Experimental Research of a Compliant Minigripper	Solid State Phenomena, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/ SSP.164.383/ISBN 978-3-908451-84-6	164	2010	383-386	1.00	***	
4	Noveanu, S., Chetran, B., Tătar, O., Răducanu, G., Mândru, D.	5	Structural Synthesis of the Upper Limb Modular Wearable Exerciser	Proceedings of the 17th International Conference on System Theory, Control and Computing, IEEE Catalog Number CFP1336P-CDR/ISBN 978-1-4799-2228-4	1	2013	693-697	1.00	***	
5	Noveanu, S., Rusu, C., Rancea, C., Lateş, D.	4	Research Concerning the End-effectors for SiMFlex Microgripper	Materials Science and Engineering/ doi:10.1088/1757-899X/724/1/012055/ ISSN 2076-3417	724	2020	1 - 6	1.00		^^
6	Noveanu, S., Lateş, D., Fusaru, L., Rusu, C.	4	A New Compliant Microgripper and Study for Flexure Hinges Shapes	Procedia Manufacturing doi.org/10.1016/j.promfg.2020.03.074/ISSN 2351-9789	46	2020	517-524	1.00		
7	Noveanu, S., Rusu, C., and Mândru, D.	3	Design and Simulation the Manipulator SI2M Used in Microfactories	Applied Mechanics and Materials Vol. 762, Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/ AMM.762.27/ISSN 1662-7482	762	2015	27-32	1.00		
								0.00		

	0.00
	0.00
Total	**7.00**

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

co-autor

Nr. crt.	Nume autori	Numar autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Punctaj individual		
1	Mandru, Dan; Lungu, Ion; Noveanu, Simona; et al.	4	New actuation systems based on shape memory alloys	Advanced Topics in Optoelectronics, Microelectronics and Nanotehnologies, Proc. SPIE , doi:10.1117/12.823635. 1392-1215 / ISBN 9781628413250	7297	2009	Article Number: 72970P	1.00		^^
2	Mandru, D.; Lungu, I.; Noveanu, S.; et al.	4	Shape Memory Alloy Wires as Actuators for a Minirobot	Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, IEEE Nr CFP10AQT-CDR / ISBN 978-1-4244-6722-8	17	2010	333-336	1.00	***	
3	Lungu, I., Noveanu, S., Mândru, D.,	3	Development of a test bench for SMA wires	Solid State Phenomena Vol. 164 (2010) doi:10.4028/www.scientific.net/SSP.164.56 / ISSN 1662-9779	164	2010	56-60	1.00		^^
4	Chetran, B., Mândru, D., Noveanu, S., Tatar, O.,	4	Linear Active/Passive Upper Limb Exerciser	Meditech 2011 IFMBE Proceedings, DOI 10.1007/978-3-642-22586-4_32 / ISSN 1662-9779	36	2011	152-155	1.00	***	^^
5	Chetran, B., Noveanu, S., Tatar, O., Mandru, D.	4	A study of suitable resistive torque mechanisms for rehabilitation exoskeletons	Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, art. no. 6969892, DOI: 10.1109/ICEPE.2014.6969892 / ISBN 978-1-4799-5849-8	1	2014	178-181	1.00	***	^^

6	Ianosi-Andreeva-Dimitrova, A., Mandru S.D., Noveanu, S., Tătar, M.O.,	4	A Brain-Computer Interface for the Control of a Finger Rehabilitation Glove	The 9th International Conference and Exposition on Electrical and Power, Engineering, DOI: 10.1109/ICEPE.2016.7781359 http://ieeexplore.ieee.org/abstract/document/7781359 / ISBN 978-1-5090-6129-7	1	2016	344-347	1.00 ***	^^
7	T L Tiuca, C Rusu, S Noveanu, D Mandru	4	General KBE model with inheritance and multi CAD support	Materials Science and Engineering, The 7th International Conference on Advanced Concepts in Mechanical Engineering, doi:10.1088/1757-899X/147/1/012080 / ISSN 1757-8981	147	2016	Article Number: UNSP 012066	1.00 ***	
8	C Rusu, T L Tiuca, S Noveanu, D Mândru	4	A KBE tool for solving the mechanisms kinematics	Materials Science and Engineering, The 7th International Conference on Advanced Concepts in Mechanical Engineering, doi:10.1088/1757-899X/147/1/012080 / ISSN 1757-8981	147	2016	Article Number: UNSP 012080	1.00 ***	
9	Ianosi-Andreeva-Dimitrova, A., Noveanu, S., Tătar, M.O., Mandru S.D.	4	Shoulder-Elbow Exoskeleton as Rehabilitation Exerciser	Materials Science and Engineering, vol. 147, No. 1, p. 012048, doi:10.1088/1757-899X/147/1/012048 / ISSN 1757-8981	147	2016	UNSP 012048	1.00 ***	
10	Ianosi-Andreeva-Dimitrova, A.; Mandru, D. S.; Tatar, M. O.; et al.	4	Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment	IFMBE Proceedings, DOI: 10.1007/978-3-319-52875-5_55	59	2017	259-262	1.00 ***	

11	Mândru, D., Lungu, I., Noveanu, S., Tătar, O.	4	Analysis of time response of shape memory alloy actuators modular system	Solid State Phenomena, doi:10.4028/3-908454-04-2.726 / ISSN 1662-9779	147-149	2009	726-731	1.00	^^
12	Chetran, B., Tătar, O., Noveanu, S., Mândru, D.	4	A proposal for a driving system of a four DOF rehabilitation exoskeleton	IFMBE Proceedings, DOI: 10.1007/978-3-319-07653-9_2	44	2014	07 - 10	1.00	^^
13	Lates D., Noveanu, S., Csibi, V. I.	3	Micropositioning System with Flexure Hinges for microfactories	Key Engineering Materials, www.ttp.net/1013-9826.htm / ISSN 1662-9795	581	2014	485-490	1.00	^^
14								0.00	
								0.00	
	Total							13.00	

P1.1 **Articole şi publicaţii ştiinţifice indexate Web of Science - Thomson Reuters *, ****

Autor corespondent/Prim autor *maxim 3 autori*

Nr. crt.	Autor corespondent=2; Prim autor=1	Nume autori	Titlul lucrarii	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Punctaj individual pt n max 3
1								0	0.00
2									0.00
									0.00
									0.00
		Total							0.00

* 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 cotat, 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), in niciun caz abstracte, indiferent ca au aparut intr-un Book of abstracts, sau intr-un jurnal.

P1.2 **Articole şi publicaţii ştiinţifice indexate Web of Science - Thomson Reuters *, ****

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

Nr. crt.	Autor corespondent=2; Prim autor=1	Numar autori	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Punctaj individual
1	1	5	Noveanu, S. Ivan, A.I., Noveanu, D.C., Rusu, C., Lates, D.,	SiMFlex Micromanipulation Cell with Modular Structure	Applied Science / EISSN 2076-3417	10	2020	1 - 10	2.217	2.90
2	1	4	Noveanu, S., Lobonţiu, N., Lazaro, J., Mândru, D.,	Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper	Mechanism and Machine Theory / ISSN 0094-114X	91	2015	1-20	1.689	2.83
										0.00
										0.00
										0.00
			Total							5.73

P1.3 **Articole şi publicaţii ştiinţifice indexate Web of Science - Thomson Reuters**

co-autor *maxim 3 autori*

Nr.crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	Lates, D., Noveanu, S., & Vencel, C.	Design and application of compliant mini-grippers for handling chemicals	Archive of Mechanical Engineering / ISSN 2300-1895	62/2	2015	205-216	0.42	3	0.62
2	Lungu, I., Mandru, D., Noveanu, S.	Mechatronics Training and Education	Elektrotechnika / ISSN 2029-5731	1	2008	37-40	0	3	0.20
3									0.00
									0.00
	Total								**0.82**

P1.4 **Articole şi publicaţii ştiinţifice indexate Web of Science - Thomson Reuters**

co-autor *mai mult de 3 autori*

Nr. crt	Nume autori	Titlul lucrarii	Denumire Jurnal/ISSN	Volum/ Numar	Anul publicarii	nr. pagini (de la .. pana la:)	Factor de impact in anul publicarii	Numar autori	Punctaj individual
1	Lungu, I., Ivan, I. A., Rakotondrabe, M., Noveanu, S., Ştefan, V., & Mândru, D.	Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires	Control Engineering and Applied Informatics / ISSN 1454-8658	19/2	2017	80-89	0.698	6	0.45
2	Tiuca, T., Rusu, C.; Noveanu, S.; Besoiu, S,. Mandru D.	The simulation and the interface of the mechanisms used in microfactories	Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering / ISSN 1221-5872	58/4	2015	609-612	0	5	0.12
4	Lobontiu, N., Cullin, M., Petersen, T., Alcazar J.A., Noveanu, S.	Planar Compliances of Symmetric Notch Flexure Hinges: The Right Circularly Corner-Filleted Parabolic Design	IEEE Transactions on Automation Science and Engineering / ISSN 1545-5955	11	2014	169-176	2.428	5	1.58
5	Rakotondrabe M., Ivan I.A,, Stihi V., Noveanu S., Minca, E.,	Design And Modeling Of A Piezoelectrically actuated Microvalve	Romanian Journal of Physics / ISSN 1221-146X	55	2011	141-149	0.414	5	0.37
									0.00
									0.00
									0.00
Total									2.51

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

Prim autor/autor corespondent *maxim 3 autori*

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

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

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

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

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

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

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

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

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

Nr.crt	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
1	Noveanu, S., Csibi, I.V., Mandru, D., Noveanu, D.	Minigriper compliant cu actuator piezoelectric, nr.127385/30.10.2015	2015	5	0.84
					0.00
					0.00
					0.00
	Total				**0.84**

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

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

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

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

Co-autor *minim 4 autori inclusiv*

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

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

maxim 3 autori

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

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

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

N4.1-2

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

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

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

prim autor

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1							0.00
							0.00
							0.00
							0.00
	Total						0.00

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

co - autor

Nr.crt	Autori	Titlul	Editura	Anul editarii	ISBN	Nr. Pagini	Punctaj individual
1	Mândru, D., Crişan, R., Tătar, O., Noveanu, S.,	Acţionări în Mecanica Fină şi Mecatronică	Alma Mater, Cluj-Napoca	2004	73-8397-69-3	472	1.00
							0.00
							0.00
							0.00
							0.00
	Total						**1.00**

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

Nr. Crt.	Tipul activitati i: 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
1	1	International Conference on Mechanical Engineering - OGET, Cluj-Napoca, Romania	2003	Rugalmas kapcsolódású mechanizmusok - The flexible mechanisms	https://emt.ro/sites/default/files/archivum/program/Esem%C3%A9ny%20arch%C3%ADvum%20bek%C3%BCld%C3%A9se/emt_oget_program_2003.pdf	1.00
2	1	The "9th International Conference on Mechanisms and Mechanical Transmissions, Cluj-Napoca, Romania	2004	Analysis Of Compliant Mechanisms Using Finite Element	https://mdm.utcluj.ro/old/mtm04.html	1.00
3	1	The 1st International Conference COMPUTATION MECHANICS and VIRTUAL ENGINEERING - COMEC, Brasov, Romania	2005	Influence of the flexure hinge geometry on compliant mechanisms functioning	http://sites.google.com/site/comec2005papers	1.00
4	1	The 8th International Conference on Mechatronics and Precision Engineering - COMEFIM, Cluj-Napoca	2006	Locking Systems Based On Compliant Mechanisms	https://mdm.utcluj.ro/old/comefim8.html	1.00
5	1	The International Conference ADVANCED ENGINEERING IN MECHANICAL SYSTEMS - ADEMS, Cluj-Napoca, Romania	2007	Research Concerning The Geometry of Flexure Hinges	lucrare si program atasate	1.00
6	1	The IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR, Cluj-Napoca, Romania	2008	Robotic Actuation Systems Based on Shape Memory Alloy Actuators	certificat de participare	1.00

7	1	The 9th International Conference on Mechatronics and Precision Engineering - COMEFIM, Iasi, Romania	2008	Modelling, Analysis and Simulation of a Compliant Micro-Positioning Mechanism,	https://mec.tuiasi.ro/conferinte-internationale/?lang=e	1.00
8	1	The 10th International Conference on Mechanisms and Mechanical Transmissions, Timisoara, Romania	2008	The FEM analysis of compliant mechanisms,	https://www.europeana.eu/ro/item/2020801/dmglib_handler_docum_10753009	1.00
9	1	The International Conference on Engineering Graphics and Design ICEGD, Cluj-Napoca, Romania	2009	Design of compliant mechanisms	http://sorging.ro/conferinta-icegd/	1.00
10	1	The International Conference on Mechanical Engineering - OGET, Gheorghieni, Romania	2009	Rugalmaskötésű megfogók analízise végeselemes módszerrel	https://emt.ro/sites/default/files/archivum/program/Esem%C3%A9ny%20arch%C3%ADvum%20bek%C3%BCld%C3%A9se/emt_oget_program_2009.pdf	1.00
11	1	The 6th International Conference Mechatronic Systems and Materials MSM, Opole, Polonia	2010	Experimental research of a mini-system with piezoelectric actuation	https://cesti.po.opole.pl/msm2010/msm2010_programme.pdf	1.00
12	1	The International Conference on Robotics Robotics'10, Cluj-Napoca, Romania	2010	Research concerning the ramp and Sinusoidal Signals of the Piezoelectric Actuation	https://mdm.utcluj.ro/old/robotics10.html, program	1.00
13	1	3-rd European Conference on Mechanism Science, Cuj-Napoca	2010	Design and Modelling a MiniSystem with Piezoelectric Actuation	https://eucomes2010.utcluj.ro/	1.00
14	1	The 4th International Conference Computational Mechanics and Virtual Engineering, COMEC, Brasov, Romania	2011	Actuation and simulation of a minisystem with flexure hinges,	http://old.unitbv.ro/nstmcm/ro-ro/events.aspx	1.00
15	1	International Conference on Mechanical Engineering - OGET, Sumuleu Ciuc, Romania	2011	A hajlékony kötésű mechanizmusok végeselemes vizsgálata és geometriai előnyei	https://emt.ro/sites/default/files/archivum/program/Esem%C3%A9ny%20arch%C3%ADvum%20bek%C3%BCld%C3%A9se/emt_oget_program_2011.pdf	1.00
16	2	The 17th International Conference on System Theory, Control and Computing ICSTCC, Sinaia, Romania	2013	Structural Synthesis of the Upper Limb Modular Wearable Exerciser	http://ace.ucv.ro/icstcc2013/ICSTCC2013_program.pdf	1.00
17	1	The International Conference on Robotics Robotics, Bucuresti	2014	Design and Simulation the Manipulator SI2M Used in Microfactories	http://www.robotics-society.ro/noutati/ROBOTICS%202014%20-%20Call%20for%20Papers%20-%20Iulian%20TABARA%20-%20FV.pdf	1.00
18	1	IFME 2017, Cluj-Napoca, Romania	2017	Flex Mentoring Program at TUCN	research-and-development/ifme-forum/seminar-agenda_final_ifme2017_09112017.pdf	1.00

19	1	IFME 2018, Nurtingen, Germania	2018	New Flexible Mentoring cooperation model for HEI's and companies	Development/ifme-foorum/annual-forums/ifme-2018-in-nurtingen-germany/	1.00
20	3	Kyrgyz State Technical University named after I.Razzakov, Bishkek, Kyrgyzstan	2019	Requirements for Mechatronic Systems	invitatie si program atasate	1.00
21	1	International Conference InterEng, Tirgu Mures, Romania	2019	A New Compliant Microgripper and Study for Flexi	https://inter-eng.umfst.ro/2019/technical-program-indu	1.00
22	1	International Conference RoTrib, Cluj-Napoca, Romania	2019	Research Concerning the End-effectors for SiMFle	https://minas.utcluj.ro/rotrib_program.html#header16-	1.00
23	3	International week at ENISE, Saint Etienne, Franta	2019	Compliant Mechanisms	https://www.enise.fr/en/Relations-internationales/man	1.00
25						0.00
						0.00
						0.00
Total						**23.00**

S Atragere resurse financiare prin granturi/proiecte/contracte terţi

Nr.crt	Calitatea: director = 1, membru in echipa = 2	Tip proiect *	Titlul proiectului	Perioada de derulare	Valoare totala UTCN** [ech. Euro]	Valoarea alocata membrului in echipa de catre directorul de proiect*** [ech. Euro]	Punctaj individual
1	1	ARUT-Gnac	*Sistem de micromanipulare cu actuatori piezoelectrici şi flexibilitate funcţională – SiMFlex*, cod 168 nr.3030/2019 (valoare totala 45000lei; cv=4.50) director de proiect S.l.dr.ing. Simona Noveanu	2019-2020	7600	3500	7.60
2	1	Terti	*Cercetări privind aplicaţii ale imprimantelor 3D în domeniul medical, terţii* nr. 20/2016, SC PRINTCRAFT SRL-D, (valoare totala 1004lei; cv=4.52) director de proiect S.l.dr.ing. Simona Noveanu	2016-2017	168	100	0.17
3	2	POSDRU	*Sistem de micromanipulare monobloc cu cuple flexibile - SI2M, „Parteneriat interuniversitar pentru excelenta in inginerie - PARTING"* Cod Contract: POSDRU/159/1.5/S/137516, (valoare 66600lei; cv=4.45) bursier postdoctorand proiect S.l.dr.ing. Simona Noveanu	2014-2015	14966	14966	14.97
4	1	EPPKA2-CBHE	*Advancing University Education in Biomedical Engineering and Health Management in Kyrgyzstan (KyrMedu)*, ID proiect: 561894-EPP-1-2015-1-DE-EPPKA2-CBHE-ERASMUS (valoare totala 825056.43 Euro) coordonator proiect partener UTCN S.l.dr.ing. Simona Noveanu	2017-2019	54945	10113	54.95
5	2	RIA-CTR	*Sistem hibrid fes-exoschelet pentru recuperarea braţului la persoanele cu handicap neuromotor(EXOSLIM)*, PCCE nr. 180/2012 (valoare totala 3243300lei; P2=800000lei cv=4.54, valoare SN =199000lei) coordonator proiect partener UTC-N Prof.dr.ing. Silviu Dan Mandru	2012-2016	133900	35400	35.40
6	2	RIA-CTR	*Modelarea, simularea şi controlul mini şi micromecanismelor compliante*, Proiect IDEI cod 221/2008, (valoare 370.436.23 lei; cv=3.62, SN =99600lei) director de proiect Prof.dr.ing. Vencel-Iosif Csibi	2008-2011	77800	31500	31.50
7	2	RIA-CTR	*Dezvoltarea unei familii modularizate de actuatori liniari si rotativi pe baza de AMF*, Proiect IDEI cod 1076, (645580lei; cv=3.51, SN =162000lei) director de proiect Prof.dr.ing. Silviu Dan Mandru	2007-2010	139780	37200	37.20
8	2	RIA-CTR	*Sistem robotic miniatural cu abilităţi de reconfigurare şi auto-multiplicare (ROMAR)*, Proiect CE-EX-M1-493, (1000000lei; P2=160000lei cv=3.52, SN =40000lei) coordonator proiect partener UTC-N Prof.dr.ing. Silviu Dan Mandru	2006-2008	34545	9100	9.10
9	2	RIA-CTR	*Contribuţii la proiectarea nano/micro mecanismelor flexibile de acţionare şi detecţie, proiect tip A cod CNCSIS 984*,(34700lei; cv=3.62, SN=1061,75lei) director de proiect Prof.dr.ing. Nicolae Lobonţiu	2005-2007	7285	293	0.29
10	2	RIA-CTR	*Cercetari privind dezvoltarea unui sistem interactiv pentru invatarea alfabetului braille si a dactilemelor specifice limbajului mimico-gesticular*, Contract tip A, nr. 2783 / 2006, Cod CNCSIS 1294, tema A8, (39000lei; cv=3.52, SN =9800lei) director de proiect Prof.dr.ing. Silviu Dan Mandru	2006-2007	8420	2200	2.20

* Se va specifica fie tipul competitiei, fie terti in cazul contractelor cu mediul economic

** Se va introduce valoarea fara TVA

*** Pentru contracte derulate inainte de 01.01.1999 se va considera echivalarea: 1 Euro=1 USD

11	2	RIA-CTR	*Contract tip A nr. 34702/ 2005, cod CNCSIS 985 - Calculul numeric, modelarea pe calculator si tehnologia de executie a angrenajelor speciale.* (11000lei; cv=3.62, SN =4500) director de proiect Prof.dr.ing. Vencel Csibi	2005-2006	2310	1100	1.10
12	2	RIA-CTR	*Contract tip A nr. 33385/ 2004, tema A26, cod CNCSIS 1051- Cercetari privind sistemele robotizate destinate persoanelor cu dizabilitati,* (15000lei; cv=4.06, SN =3800lei) director de proiect Prof.dr.ing. Silviu Dan Mandru	2004-2005	2810	700	0.70
13	2	ERASMUS-EKA	*Reshaped Partnerships for Competitiveness and Innovation Potential in Mechanical Engineering (RePCI), nr. proiect: 540425-LLP-1-2013-1-FI-ERASMUS-EKA,* coordonator proiect partener UTC-N Prof.dr.ing. Silviu Dan Mandru	2013-2015	58925	2659	2.66
14	2	EPPKA2-KA	*Smart HEI-Business collaboration for skills and competitiveness (HEIBus) 575660-EPP-1-2016-1-FI-EPPKA2-KA,* coordonator proiect partener UTC-N S.l.dr.ing. Ciprian Lapusan	2017-2019	58800	6504	6.50

http://www.cursvalutar.com/istoric-curs

	0.00
	0.00
Total	**204.34**

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

Nota: se exclud autocitarile

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

Nr. Crt.	Date de identificare complete ale articolul citat (se exclud autocitarile)***	Date de identificare complete ale articolelor care citeaza	Anul in care a fost citata lucrarea	Linkul articolului care citeaza	Factorul de impact al publicației WOS în care apare citarea	Punctaj individual	
1	Lobontiu, N., Cullin, M., Petersen, T., Noveanu, S., Planar Compliances of Symmetric Notch Flexure Hinges: The Right Circularly Corner-Filleted Parabolic Design, IEEE Transactions on Automation Science and Engineering, Volume: 11 Issue: 1 Pages: 169-176, ISSN 1545-5955, Published: JAN 2014	Lobontiu, Nicolae, ***In-Plane Compliances of Planar Flexure Hinges With Serially Connected Straight- and Circular-Axis Segments*** , JOURNAL OF MECHANICAL DESIGN Volume: 136 Issue: 12 Article Number: 122301 Published: DEC 2014	WOS 2014	https://asmedigitalcollection.asme.org/mechanicaldesign/article-abstract/136/12/122301/375945/In-Plane-Compliances-of-Planar-Flexure-Hinges-With?redirectedFrom=fulltext	1.250	2.25	***
2		Guimin Chen1, Jialu Wang and Xiaoyuan Liu, ***Generalized Equations for Estimating Stress Concentration Factors of Various Notch Flexure Hinges,*** J. Mech. Des. 136(3), 031009 (Jan 20, 2014) (8 pages), Paper No: MD-13-1266; doi: 10.1115/1.4026265, Accession Number: WOS:000331146400009	Scopus 2014	https://asmedigitalcollection.asme.org/mechanicaldesign/article-abstract/136/3/031009/375997/Generalized-Equations-for-Estimating-Stress?redirectedFrom=fulltext		1.00	^^
3		Zhu ZhiWei; Zhou XiaoQin; Wang RongQi; et al., ***A simple compliance modeling method for flexure hinges*** , SCIENCE CHINA-TECHNOLOGICAL SCIENCES Volume: 58 Issue: 1 Pages: 56-63 Published: JAN 2015	WOS 2015	https://link.springer.com/article/10.1007/s11431-014-5667-1	1.441	2.44	***

4	Xu, Qingsong, ***Design of a Large-Range Compliant Rotary Micropositioning Stage With Angle and Torque Sensing*** , Sensors Journal, IEEE, Volume: 15 , Issue: 4 , DOI: 10.1109/JSEN.2014.2377779 Publication Year: 2015 , Page(s): 2419 - 2430	WOS 2015	https://ieeexplore.ieee.org/document/6977924/references#references	1.889	2.89 ***
5	Fu, JJ ; Yan, CX ; Liu, W; Yuan, T, ***Simplified equations of the compliant matrix for right elliptical flexure hinges,*** REVIEW OF SCIENTIFIC INSTRUMENTS,Volume: 86 Issue: 11 , DOI: 10.1063/1.4936212 ,WOS:000366054300066, nov 2015, Publication Year: 2015 , Page(s): 2419 - 2430	WOS 2015	https://aip.scitation.org/doi/abs/10.1063/1.4936212	1.336	2.34 ***
6	Fu, J.-J., Y, an, C.-X., Liu, W., Yuan, T., ***Stiffness optimization of two-axis flexible supporting platform for fast steering mirror,*** Guangxue Jingmi Gongcheng/Optics and Precision Engineering 23(12), pp. 3378-3386	Scopus 2015	http://www.opticsjournal.net/Articles/Abstract?aid=OJ160122000789FbHeK	0.000	1.00

7	Gu, G.-Y., Zhu, L.-M. ; Su, C.-Y. ; Ding, H. ; Fatikow, S., ***Modeling and Control of Piezo-Actuated Nanopositioning Stages: A Survey, IEEE Transactions Automation Science and Engineering,*** on (Volume:13 , Issue: 1), Page(s): 313 - 332, ISSN :1545-5955; DOI:10.1109/TASE.2014.2352364, IAN 2016	WOS 2016	https://ieeexplore.ieee.org/document/6909086/references#references		1.336	2.34 ***
8	Fu, J.-J., Yan, C.-X., Liu, W., Yuan, T., ***Stiffness calculation and optimal design of elliptical flexure hinges*** , Guangxue Jingmi Gongcheng/Optics and Precision Engineering, 24(7), pp. 1703-1710	Scopus 2016	http://www.opticsjournal.net/Articles/Abstract?aid=OJ160829000152IfLiOk			1.00

9	Liu, Pengbo; Lu, Songsong; Yan, Peng; et al., ***KINETOSTATICS MODELING AND DECOUPLING ANALYSIS OF A CROSSHAIR FLEXURES-BASED NANOPOSITIONER,*** Proceedings of the ASME International Design Engineering Technical Conferences / Computers and Information in Engineering Conference (IDETC/CIE 2017) , VOL 5A Book Series: Proceedings of the ASME Design Engineering Technical Conferences Article Number: UNSP V05AT08A018 Published: 2017	WOS 2017	https://asmedigitalcollection.asme.org/IDETC-CIE/proceedings-abstract/IDETC-CIE2017/58172/V05AT08A018/259525		1.00 ***
10	Li, Lijian; Zhang, Dan; Guo, Sheng; et al., ***A Generic Compliance Modeling Method for Two-Axis Elliptical-Arc-Filleted Flexure Hinges,*** SENSORS Volume: 17 Issue: 9 Article Number: 2154 Published: SEP 2017	WOS 2017	https://www.mdpi.com/1424-8220/17/9/2154/htm	2.475	3.48 ***
11	Yan, Y., Liu, W., Yan, C., Fu, J., ***Analysis of the Micro-Rotation Compliant Mechanism Based on the Corner-Filleted Flexure Hinges*** , Journal of Harbin Institute of Technology (New Series) 24(5), pp. 71-81	Scopus 2017	com.am.e-nformation.ro/redirect/linking.uri?targetURL=https%3a%2f%2fdoi.org%2f10.11916%2fj.issn.1005-9113.15372&locationID=2&categoryID=4&eid=2-s2.0-85042371818&issn=10059113&linkType=ViewAtPublisher&y		1.00

12	Wang, Nianfeng; Zhang, Zhiyuan; Zhang, Xianmin, ***DESIGN OF A MICRO-POSITIONING STAGE USING CORRUGATED FLEXURE BEAM WITH CUBIC BEZIER CURVE SEGMENTS,*** PROCEEDINGS OF THE ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, 2018, VOL 5A Article Number: V05AT07A005 Published: 2018	WOS 2018 (2017)	https://asmedigitalcollection.asme.org/IDETC-CIE/proceedings-abstract/IDETC-CIE2018/51807/V05AT07A005/275144			1.00 ***
13	Xu, Q., ***Micromachines for biological micromanipulation*** (Book), Micromachines for Biological Micromanipulation pp. 1-226	Scopus 2018	https://www.springer.com/gp/book/9783319746203			1.00
14	Eastwood, Kyle W.; Francis, Peter; Azimian, Hamidreza; et al., ***Design of a Contact-Aided Compliant Notched-Tube Joint for Surgical Manipulation in Confined Workspaces*** , JOURNAL OF MECHANISMS AND ROBOTICS-TRANSACTIONS OF THE ASME Volume: 10 Issue: 1 Article Number: 015001 Published: FEB 2018	WOS 2018 (2017)	https://asmedigitalcollection.asme.org/mechanismsrobotics/article-abstract/10/1/015001/377361/Design-of-a-Contact-Aided-Compliant-Notched-Tube?redirectedFrom=fulltext	2.233	3.23 ***

15	Li, Y., Wu, H.-T., Yang, X.-L., Kang, S.-Z., Cheng, S.-L., **Optimization design of circular flexure hinges, Guangxue Jingmi Gongcheng/Optics and Precision Engineering 26(6), pp. 1370-1379**	Scopus 2018	http://www.opticsjournal.net/Articles/Abstract?aid=OJ181002000075OlRnUq		1.00	
16	Wang, Piyu; Xu, Qingsong, ***Design and Testing of a Flexure-Based Constant-Force Stage for Biological Cell Micromanipulation,*** IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING Volume: 15 Issue: 3 Pages: 1114-1126 Published: JUL 2018	WOS 2018 (2017)	https://ieeexplore.ieee.org/document/8016431/references#references	3.667	4.67	***
17	Li, Lijian; Zhang, Dan; Guo, Sheng; et al., ***Design, modeling, and analysis of hybrid flexure hinges*** , MECHANISM AND MACHINE THEORY Volume: 131 Pages: 300-316 Published: JAN 2019	WOS 2019	https://www.sciencedirect.com/science/article/abs/pii/S0094114X18303562	3.535	4.54	
18	***Fabrication, and Testing of a New Compact Piezo-Driven Flexure Stage for Vertical Micro/Nanopositioning*** , IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING Volume: 16 Issue: 2 Pages: 908-918 Published: APR 2019	WOS 2019	https://ieeexplore.ieee.org/document/8516299/references#references	5.224	6.22	

19	Wang, Nianfeng; Zhang, Zhiyuan; Yue, Fan; et al., ***Exploration of Translational Joint Design Using Corrugated Flexure Units With Bezier Curve Segments*** , JOURNAL OF MECHANICAL DESIGN Volume: 141 Issue: 5 Article Number: 052301 Published: MAY 2019	WOS 2019 (2018)	https://asmedigitalcollection.asme.org/mechanicaldesign/article-abstract/141/5/052301/449130/Exploration-of-Translational-Joint-Design-Using?redirectedFrom=fulltext	2.828	3.83
20	Jesse; Kawagley, Collette, ***Straight-axis folded flexure hinges: In-plane elastic response*** , PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY Volume: 57 Pages: 54-63 Published: MAY 2019	WOS 2019 (2018)	https://www.sciencedirect.com/science/article/abs/pii/S0141635919300637	2.685	3.69
21	Zhang, Quan; Zhao, Jianguo; Shen, Xin; et al., ***Design, Modeling, and Testing of a Novel XY Piezo-Actuated Compliant Micro-Positioning Stage*** , MICROMACHINES Volume: 10 Issue: 9 Article Number: 581 Published: SEP 2019	WOS 2019 (2018)	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6780070/	2.426	3.43
22	Liu, Min; Zhan, Jinqing; Zhang, Xianmin, ***Topology optimization of distributed flexure hinges with desired performance*** , ENGINEERING OPTIMIZATION Volume: 52 Issue: 3 Pages: 405-425 Published: MAR 3 2020	WOS 2020 (2018)	https://www.tandfonline.com/doi/abs/10.1080/0305215X.2019.1595612	1.809	2.81
18					0.00

1	Noveanu, S., Lobonţiu, N., Lazaro, J., Mândru, D., Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper, Mechanism and Machine Theory 91 (2015), pp. 1-20, doi:10.1016/j.mechmachtheory.2015.04.001	Junyi Cao, Mingxiang Ling, Daniel J Inman, Jin Lin, ***Generalized constitutive equations for piezo-actuated compliant mechanism,*** Smart Materials and Structures , Volume 25 Number 9, 2016, 095005 , http://dx.doi.org/10.1088/0964-1726/25/9/095005	WOS 2016	https://iopscience.iop.org/article/10.1088/0964-1726/25/9/095005	2.909	3.91 ***
2		Ling, Mingxiang; Cao, Junyi; Jiang, Zhou; et al., ***Modular kinematics and statics modeling for precision positioning stage*** , MECHANISM AND MACHINE THEORY Volume: 107 Pages: 274-282 Published: JAN 2017	WOS 2017	https://www.sciencedirect.com/science/article/abs/pii/S094114X16303718?via%3Dihub	2.796	3.80 ***
3		Ling, Mingxiang; Cao, Junyi, ***A new hybrid piezo-actuated compliant mechanism with self-tuned flexure arm, TRIBUTE CONFERENCE HONORING DANIEL INMAN*** Book Series: Proceedings of SPIE Volume: 10172 Article Number: UNSP 101720G Published: 2017	WOS 2017	https://spie.org/Publications/Proceedings/Paper/10.1117/12.2260448		1.00 ***
4		Li, Lijian; Zhang, Dan; Guo, Sheng; et al., ***A Generic Compliance Modeling Method for Two-Axis Elliptical-Arc-Filleted Flexure Hinges,*** SENSORS Volume: 17 Issue: 9 Article Number: 2154 Published: SEP 2017	WOS 2017	https://www.mdpi.com/1424-8220/17/9/2154/htm	2.475	3.48 ***

5		Qi, K.-Q., Ding, Y.-L., Xiang, Y., Fang, C., Zhang, Y., ***A novel 2-DOF compound compliant parallel guiding mechanism*** , 2017, Mechanism and Machine Theory	WOS 2017	https://www.sciencedirect.com/science/article/abs/pii/S0094114X17304548		2.796	3.80 ***
6		Yan, Y., Liu, W., Yan, C., Fu, J.[2] ***Analysis of the Micro-Rotation Compliant Mechanism Based on the Corner-Filleted Flexure Hinges*** , 2017, Journal of Harbin Institute of Technology (New Series)	2017	https://www.researchgate.net/publication/323521853_Analysis_of_the_Micro-Rotation_Compliant_Mechanism_Based_on_the_Corner-Filleted_Flexure_Hinges			1.00 ^^
7		Wang, N., Zhang, Z., Zhang, X., Cui, ***Optimization of a 2-DOF micro-positioning stage using corrugated flexure units,*** C., 2018, Mechanism and Machine Theory	WOS 2018 (2017)	http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=CitingArticles&qid=80&SID=F4Woy1FjhSctfyjhqqu&page=1&doc=6		2.796	3.80 ***
8		Ling M., Cao J., Jiang Z., Lin J., ***A semi-analytical modeling method for the static and dynamic analysis of complex compliant mechanism*** Precision Engineering, Volume 52, 2018	WOS 2018 (2017)	https://www.sciencedirect.com/science/article/abs/pii/S0141635916303646		2.582	3.58 ***
9		Ling M., Cao J., Howell L.L., Zeng M., ***Kinetostatic modeling of complex compliant mechanisms with serial-parallel substructures: A semi-analytical matrix displacement method,*** Mechanism and Machine Theory, Volume 125, 2018	WOS 2018 (2017)	https://www.sciencedirect.com/science/article/abs/pii/S0094114X17317718		2.796	3.80 ***

10		Liu, Changli; Bi, Zhuming; Ran, Jilin; et al., ***Modelling and verification of fatigue damage for compliant mechanisms*** , ROBOTICA Volume: 37 Issue: 1 Pages: 1-17 Published: JAN 2019	WOS 2019 (2018)	https://www.cambridge.org/core/journals/robotica/article/modelling-and-verification-of-fatigue-damage-for-compliant-mechanisms/F0F6A772851766306 99F3428BFA0F33A	1.184	2.18	
11		Chen F., Cai J., Dong W., Du Z. (2019) ***A Generalized Mathematical Model for the Bridge-Type and Lever-Type Mechanism*** . In: Yu H., Liu J., Liu L., Ju Z., Liu Y., Zhou D. (eds) Intelligent Robotics and Applications. ICIRA 2019. Lecture Notes in Computer Science, vol 11740. Springer, Cham	Scopus 2019	https://www.springer.com/gp/book/9783030275259		1.00	^^
12		Ling, Mingxiang; Cao, Junyi; Jiang, Zhou; et al., ***Optimal design of a piezo-actuated 2-DOF millimeter-range monolithic flexure mechanism with a pseudo-static model*** , MECHANICAL SYSTEMS AND SIGNAL PROCESSING Volume: 115 Pages: 120-131 Published: JAN 15 2019	WOS 2019 (2018)	https://www.sciencedirect.com/science/article/abs/pii/S0888327018303236	5.005	6.01	

13	Chen, Guozhen; Ding, Ye; Zhu, Xiaobo; et al., ***Design and modeling of a compliant tip-tilt-piston micropositioning stage with a large rotation range*** , PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE Volume: 233 Issue: 6 Pages: 2001-2014 Published: MAR 2019	WOS 2019 (2018)	https://journals.sagepub.com/doi/abs/10.1177/0954406218781401	1.359	2.36
14	Ngoc Le Chau; Hieu Giang Le; Thanh-Phong Dao; et al., ***Design and Optimization for a New Compliant Planar Spring of Upper Limb Assistive Device Using Hybrid Approach of RSM-FEM and MOGA*** , ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING Volume: 44 Issue: 9 Pages: 7441-7456 Published: SEP 2019	WOS 2019 (2018)	https://link.springer.com/article/10.1007/s13369-019-03795-w	1.518	2.52
15	Tian, Yanling; Yang, Mingxuan; Wang, Fujun; et al., ***A unified element stiffness matrix model for variable cross-section flexure hinges in compliant mechanisms for micro/nano positioning*** , MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS Volume: 25 Issue: 11 Pages: 4257-4268 Published: NOV 2019	WOS 2019 (2018)	https://link.springer.com/article/10.1007%2Fs00542-019-04410-6	1.513	2.51

16	Wu, Shilei; Shao, Zhongxi; Su, Haijun; et al., ***An energy-based approach for kinetostatic modeling of general compliant mechanisms*** , MECHANISM AND MACHINE THEORY Volume: 142 Article Number: UNSP 103588 Published: DEC 2019	WOS 2019 (2018)	https://www.researchgate.net/publication/335419540_An_energy-based_approach_for_kinetostatic_modeling_of_general_compliant_mechanisms/references	3.535	4.54
17	Ding, Y., Lai, L.-J., ***Static and Dynamic Analysis of Flexure-based Compliant Mechanism by Matrix Displacement Method*** , 2019 IEEE 5th International Conference on Mechatronics System and Robots, ICMSR 2019 8835474, pp. 29-33	Scopus 2019	https://ieeexplore.ieee.org/document/8835474/references#references		1.00
18	Chen, F., Li, H., He, W., Li, W., Dong, W., ***Analysis and Comparison of the Displacement Amplifiers with a Generalized Mathematical Model*** , 9th IEEE International Conference on Cyber Technology in Automation, Control and Intelligent Systems, CYBER 2019, 9066600, pp. 1386-1391	Scopus 2019	https://ieeexplore.ieee.org/document/9066600/references#references		1.00
10					0.00

1	Mândru, D., Lungu, I., Noveanu, S., Tătar, O. ***New actuation systems based on shape memory alloys*** ,2009, Advanced Topics in Optoelectronics, Microelectronics and Nanotehnologies, Proc. SPIE Vol. 7297, 72970P, doi:10.1117/12.823635.	Lungu, Ion; Mandru, Dan; Noveanu, Simona, ***Development of a Test Bench for SMA Wires,*** Conference: 5th International Conference on Mechatronic Systems and Materials Location: Vilnius, LITHUANIA Date: OCT 22-25, 2009 MECHATRONIC SYSTEMS AND MATERIALS: MECHATRONIC SYSTEMS AND ROBOTICS Book Series: Solid State Phenomena Volume: 164 Pages: 56-60 Publ: 2010	WOS 2009	https://www.scientific.net/SSP.164.56		1.00	***	
2		Lungu, Ion; Ivan, Ioan Alexandru; Rakotondrabe, Micky; et al., ***Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires*** , CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 19 Issue: 2 Pages: 80-89 Published: JUN 2017	WOS 2017	http://www.ceai.srait.ro/index.php?journal=ceai&page=article&op=view&path%5B%5D=3524	0.698	1.70	***	^^
3		Yuan, Han; Fauroux, Jean-Christophe; Chapelle, Frederic; et al., ***A review of rotary actuators based on shape memory alloys*** , JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES Volume: 28 Issue: 14 Pages: 1863-1885 Published: AUG 2017	WOS 2017	https://journals.sagepub.com/doi/full/10.1177/1045389X16682848	2.211	3.21	***	^^

4		Zhang, X., Hu, J., Mao, S., Dong, E., Yang, J., ***Design and property analysis of a hybrid linear actuator based on shape memory alloy***, 2014, Smart Materials and Structures, 23(12),125004	2014	https://iopscience.iop.org/article/10.1088/0964-1726/23/12/125004		2.502	3.50	^^
5		Dong, E., Xu, M., Zhang, S., Yang, J., ***System dynamics modeling and prototype investigation of a new SMA-electric motor hybrid linear actuator***, 2013IEEE/ASME International Conference on Advanced Intelligent Mechatronics: Mechatronics for Human Wellbeing, AIM 2013, 6584119, pp. 367-372	2013	https://ieeexplore.ieee.org/document/6584119/references#references			1.00	^^
8							0.00	
1	Ianosi, A.; Dimitrova, A., Noveanu, S.; et al., ***Shoulder-elbow exoskeleton as rehabilitation exerciser, 7*** TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147 Article Number: UNSP 012048 Published: 2016	Ianosi-Andreeva-Dimitrova, A.; Mandru, D. S.; Tatar, M. O.; et al., ***Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment***, INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2016 Book Series: IFMBE Proceedings Volume: 59 Pages: 259-262 Published: 2017	WOS 2017	https://www.springer.com/gp/book/9783319528748			1.00	***

2	Copaci, Dorin; Martin, Fernando; Moreno, Luis; et al., ***SMA Based Elbow Exoskeleton for Rehabilitation Therapy and Patient Evaluation*** , IEEE ACCESS Volume: 7 Pages: 31473-31484 Published: 2019	WOS 2019 (2018)	https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8658083		4.098	5.10
3	Zhang, Haimin; Xiao, Wenxian; Jiang, Hongbo, ***Optimal Layout of Wearable Intelligent Terminal Micro Sensor and Modeling of Elbow Movement Function Rehabilitation*** , IEEE ACCESS Volume: 7 Pages: 158881-158891 Published: 2019	WOS 2019 (2018)	https://ieeexplore.ieee.org/document/8889745/references#references		4.098	5.10
4	Giusino, D., Fraboni, F., Rainieri, G., ., (...), La Bara, L.M.A., Pietrantoni, L., ***Human Factors in Interfaces for Rehabilitation-Assistive Exoskeletons*** : A Critical Review and Research Agenda, Advances in Intelligent Systems and Computing 1152 AISC, pp. 356-362	scopus 2020	https://www.researchgate.net/publication/340380148_Human_Factors_in_Interfaces_for_Rehabilitation-Assistive_Exoskeletons_A_Critical_Review_and_Research_Agenda/references			1.00 0.00
1	Chetran, B.; Mandru, D.; Noveanu, S.; et al., ***Linear Active/Passive Upper Limb Exerciser*** , INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY Book Series: IFMBE Proceedings Volume: 36 Pages: 152-155 Published: 2011	Chetran, B.; Jisa, S.; Mandru, D., ***Resistive Torques in Rehabilitation Engineering Equipment*** , NEW TRENDS IN MEDICAL AND SERVICE ROBOT: THEORY AND INTEGRATED APPLICATIONS Book Series: Mechanisms and Machine Science Volume: 16 Pages: 43-55 Published: 2014	WOS 2014	https://www.springerprofessional.de/en/resistive-torques-in-rehabilitation-engineering-equipment/2021660			1.00 ***

2		Grigas, Vytautas; Sulginas, Anatolijus; Ziliukas, Pranas ***Development of Magnetorheological Resistive Exercise Device for Rowing Machine,*** COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE Article Number: 8979070 Published: 2016	WOS 2016	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4887648/	0.950	1.95 *** 0.00	
1	Ianosi-Andreeva-Dimitrova, A.; Mandru, D. S.; Tatar, M. O.; et al., ***Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment,*** INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2016 Book Series: IFMBE Proceedings Volume: 59 Pages: 259-262 Published: 2017	Ianosi-Andreeva-Dimitrova, Alexandru; Mandru, Dan Silviu; Abrudean, Adrian, ***A Hybrid Brain-Computer Interface Implementation for the Control of an Assistive Device,*** 2017 IEEE INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING CONFERENCE (EHB) Book Series: E-Health and Bioengineering Conference Pages: 543-546 Published: 2017	WOS 2017	https://www.semanticscholar.org/paper/A-hybrid-brain-computer-interface-implementation-of-Iano%C5%9Fi-Andreeva-Dimitrova-M%C3%A2ndru/5d94cc327b11584af63441b1afca634f01c27fe4#references		1.00 *** 0.00	
1	Noveanu, Simona; Chetran, Beniamin; Tatar, Olimpiu; et al., ***Structural Synthesis of the Upper Limb Modular Wearable Exercisers*** , 2013 17TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC) Pages: 693-698 Published: 2013	Onose, Gelu; Popescu, Nirvana; Munteanu, Constantin; et al., ***Mobile Mechatronic/Robotic Orthotic Devices to Assist-Rehabilitate Neuromotor Impairments in the Upper Limb: A Systematic and Synthetic Review*** , FRONTIERS IN NEUROSCIENCE Volume: 12 Article Number: 577 Published: SEP 5 2018	NOS 2018 (2017	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6134072/	3.877	4.88 ***	

2	Ianoşi, A., Dimitrova, A., Noveanu, S., TĂtar, O. M., & Mândru, D. S. (2016). Shoulder-elbow exoskeleton as rehabilitation exerciser. In IOP Conference Series: Materials Science and Engineering (Vol. 147). Institute of Physics Publishing. https://doi.org/10.1088/1757-899X/147/1/012048	Scopus 2016	https://iopscience.iop.org/article/10.1088/1757-899X/147/1/012048/meta	1.00
3	Chetran, B., Tătar, O., Noveanu, S., Mândru, D. (2014) A Proposal for a Driving System of a Four DOF Rehabilitation Exoskeleton, Proceedings of International Conference on Advancements of Medicine and Health Care through Technology – Meditech 2014, 5th – 7th June 2014, Cluj-Napoca, Romania, Series: IFMBE Proceedings, Vol. 44. , pp. 7-10, Vlad, Simona, Ciupa, Radu V. (Eds.) 2014, XIV, ISBN 978-3-319-07653-9, DOI: 10.1007/978-3-319-07653-9_2.	Scopus 2016	https://www.springerprofessional.de/en/a-proposal-for-a-driving-system-of-a-four-dof-rehabilitation-exo/2164436	1.00
				0.00

1	Lungu, Ion; Mandru, Dan; Noveanu, Simona, ***Development of a Test Bench for SMA Wires*** , MECHATRONIC SYSTEMS AND MATERIALS: MECHATRONIC SYSTEMS AND ROBOTICS Book Series: Solid State Phenomena Volume: 164 Pages: 56-60 Published: 2010	Lungu, Ion; Ivan, Ioan Alexandru; Rakotondrabe, Micky; et al., ***Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires*** , CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 19 Issue: 2 Pages: 80-89 Published: JUN 2017	WOS 2017	https://pdfs.semanticscholar.org/3e1e/951156eccf74c51cc2f3e002f5a1e795e8c5.pdf	0.698	1.70 ***
1	Lungu, I., Mandru, D., Noveanu, S., ***Less Expansive Equipment for Mechatronics Training and Education*** , Electronics and Electrical Engineering Journal, 2008m., nr. 1 (81), pp. 37-40, IDS Number: 293LF, ISSN 1392-1215.	***Isik, M. F.; Coskun, I., Servo Control Education Tool for Industrial Applications,*** ELEKTRONIKA IR ELEKTROTECHNIKA Issue: 10 Pages: 159-164 Published: 2010	WOS 2010	http://eejournal.ktu.lt/index.php/elt/article/view/9152	0.659	1.66 ^^
1	Mândru, D., Lungu, I., Noveanu, S., Tătar, O., ***Analysis of Time Response of Shape Memory Alloy Actuators Modular System,*** Solid State Phenomena Vol.147-149, 2009, pp. 726-731, doi:10.4028/3-908454-04-2.726.	Lungu, Ion; Ivan, Ioan Alexandru; Rakotondrabe, Micky; et al., ***Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires*** , CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 19 Issue: 2 Pages: 80-89 Published: JUN 2017	WOS 2017	https://pdfs.semanticscholar.org/3e1e/951156eccf74c51cc2f3e002f5a1e795e8c5.pdf	0.698	1.70 ^^
						0.00
						0.00
1	Mândru, D., Lungu, I., Noveanu, S., Tatar, O., ***Shape Memory Alloy Wires as Actuators for a Minirobot*** , Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Theta 17 , Cluj-Napoca, 2010, pp. 333-336, IEEE Catalog Number CFP10AQT-CDR, ISBN: 978-1-4244-6722-8.	Experimental Characterization of Actuators for Micro Air Vehicles , By: Guglieri, Giorgio; Sartori, Daniele, International Journal of Micro Air Vehicles Volume: 3 Issue: 2 Pages: 49-59 Published: JUN 2011	Scopus 2011	https://journals.sagepub.com/doi/abs/10.1260/1756-8293.3.2.49	1.049	2.05

2	Big-Stiquito : An enlarged and faster version of the autonomous Stiquito hexapod robot By: Fevrier, Arnaud; Fauvel, Quentin; Carbonel, Nicolas; et al. Book Group Author(s): IEEE Conference: IEEE International Conference on Mechatronics (ICM) Location: Vicenza, ITALY Date: FEB 27-MAR 01, 2013	Scopus 2013	https://ieeexplore.ieee.org/document/6518557/references#references		1.00
3	Villoslada, A. ; Flores-Caballero, A. ; Copaci, D. ; Blanco, D. , High-displacement fast-cooling flexible Shape Memory Alloy actuator: Application to an anthropomorphic robotic hand, Humanoid Robots (Humanoids), 2014 14th IEEE-RAS International Conference on, DOI:10.1109/HUMANOIDS.2014.7041333	2015	https://ieeexplore.ieee.org/document/7041333/references#references		1.00
4	Lynch, B., Jiang, X.-X., Ellery, A., Nitzsche, F., ***Characterization, modeling, and control of Ni-Ti shape memory alloy based on electrical resistance feedback,*** Journal of Intelligent Material Systems and Structures 27(18), pp. 2489-2507	2016	https://journals.sagepub.com/doi/abs/10.1177/1045389X16633764	2.582	3.58

5		Lungu, I., Ivan, I. A., Rakotondrabe, M., Noveanu, S., Ştefan, V., & Mândru, D. (2017). ***Design and control of a series of linear and rotary actuators based on shape memory alloy wires*** . Control Engineering and Applied Informatics, 19(2), 80–89.	2017	https://pdfs.semanticscholar.org/3e1e/951156eccf74c51cc2f3e002f5a1e795e8c5.pdf	0.698	1.70 0.00
1	Chetran, Beniamin; Tatar, Olimpiu; Noveanu, Simona; et al., ***A Study of Suitable Resistive Torque Mechanisms for Rehabilitation Exoskeletons*** , INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 178-181 Published: 2014	Lim, Bokman; Jang, Junwon; Lee, Jusuk; et al., ***Delayed Output Feedback Control for Gait Assistance and Resistance Using a Robotic Exoskeleton*** , IEEE ROBOTICS AND AUTOMATION LETTERS Volume: 4 Issue: 4 Pages: 3521-3528 Published: OCT 2019	2019	https://ieeexplore.ieee.org/document/8758906/references#references		1.00 0.00
1	Rakotondrabe, M.; Ivan, I. A.; Stihi, V.; Noveanu, S.et al. ***DESIGN AND MODELING OF A PIEZOELECTRICALLY ACTUATED MICROVALVE*** , ROMANIAN JOURNAL OF PHYSICS Volume: 56 Issue: 1-2 Pages: 141-149 Published: 2011	Qian, Jin-Yuan; Hou, Cong-Wei; Li, Xiao-Juan; et al., ***Actuation Mechanism of Microvalves: A Review*** , MICROMACHINES Volume: 11 Issue: 2 Article Number: 172 Published: FEB 2020	2020	https://www.mdpi.com/2072-666X/11/2/172/htm	2.426	3.43 0.00 0.00
1	Noveanu, S. ; Mandru, D. ; Lungu, I. ; Csibi, V.: ***Numerical Analysis and Experimental Research of a Compliant Minigripper.*** In: Solid State Phenomena 954 (2010), Nr. 164, S. 383–387	Sebastian Linß, Ein Beitrag zur geometrischen Gestaltung und Optimierung prismatischer Festkörpergelenke in nachgiebigen Koppelmechanismen, ISSN 2194-9476, 2015	2015	https://www.db-thueringen.de/servlets/MCRFileNodeServlet/dbt_derivate_00032017/ilm1-2015000283.pdf		1.00

					0.00
1	Ianosi-Andreeva-Dimitrova, A., Mandru, D. S., Noveanu, S., & Tatar, M. O. (2016). ***A brain-computer interface for the control of a finger rehabilitation glove.*** In Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016 (pp. 344–347). Institute of Electrical and Electronics Engineers Inc. https://doi.org/10.1109/ICEPE.2016.7781359	Meza, A., Baltazar, R., Casillas, M., (...), Mosiño, F., Serna, B., ***System Development for Automatic Control Using BCI*** , Smart Innovation, Systems and Technologies 148, pp. 175-184	2020	https://link.springer.com/chapter/10.1007/978-981-13-8679-4_15	1.00
					0.00
1	Rusu, C., Tiuca, T. L., Noveanu, S., & Mândru, D. (2016). ***A KBE tool for solving the mechanisms kinematics.*** IOP Conference Series: Materials Science and Engineering, 147(1). https://doi.org/10.1088/1757-899X/147/1/012080	Wang, W., Gao, W., Yu, H., ***Research on Knowledge Template Technology for Body Design of Transfer Robot,*** Mechanisms and Machine Science 79, pp. 503-511	2020	https://www.springerprofessional.de/en/research-on-knowledge-template-technology-for-body-design-of-tra/17147912	1.00
					0.00
					0.00
1	Lates D., Noveanu, S., Csibi, V. I. (2014) ***Micropositioning System with Flexure Hinges for microfactories,*** Key Engineering Materials, Volume 581,485, pag.485-490, Miskolc. htttp://www.ttp.net/1013-9826.htm	Lates, D., ***Experimental methods for determining compliant mechanisms microdisplacements*** , Procedia Manufacturing 22, pp. 221-227	2018	https://www.sciencedirect.com/science/article/pii/S2351978918303287	1.00
					0.00
					0.00
	Total				**163.64**

Simona NOVEANU

MECANISME CU BARE

2020

UTPRESS

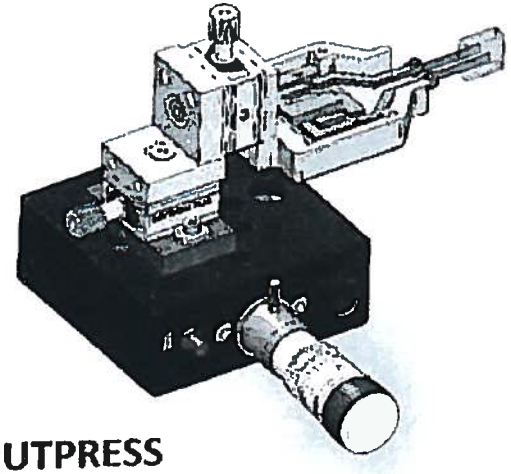
Editura U.T.PRESS
Str. Observatorului nr. 34
C.P. 42, O.P. 6, 400775 Cluj-Napoca
e-mail: utpress@biblio.utcluj.ro

ISBN 978-606-737-452-0

http://biblioteca.utcluj.ro/editura

Simona NOVEANU

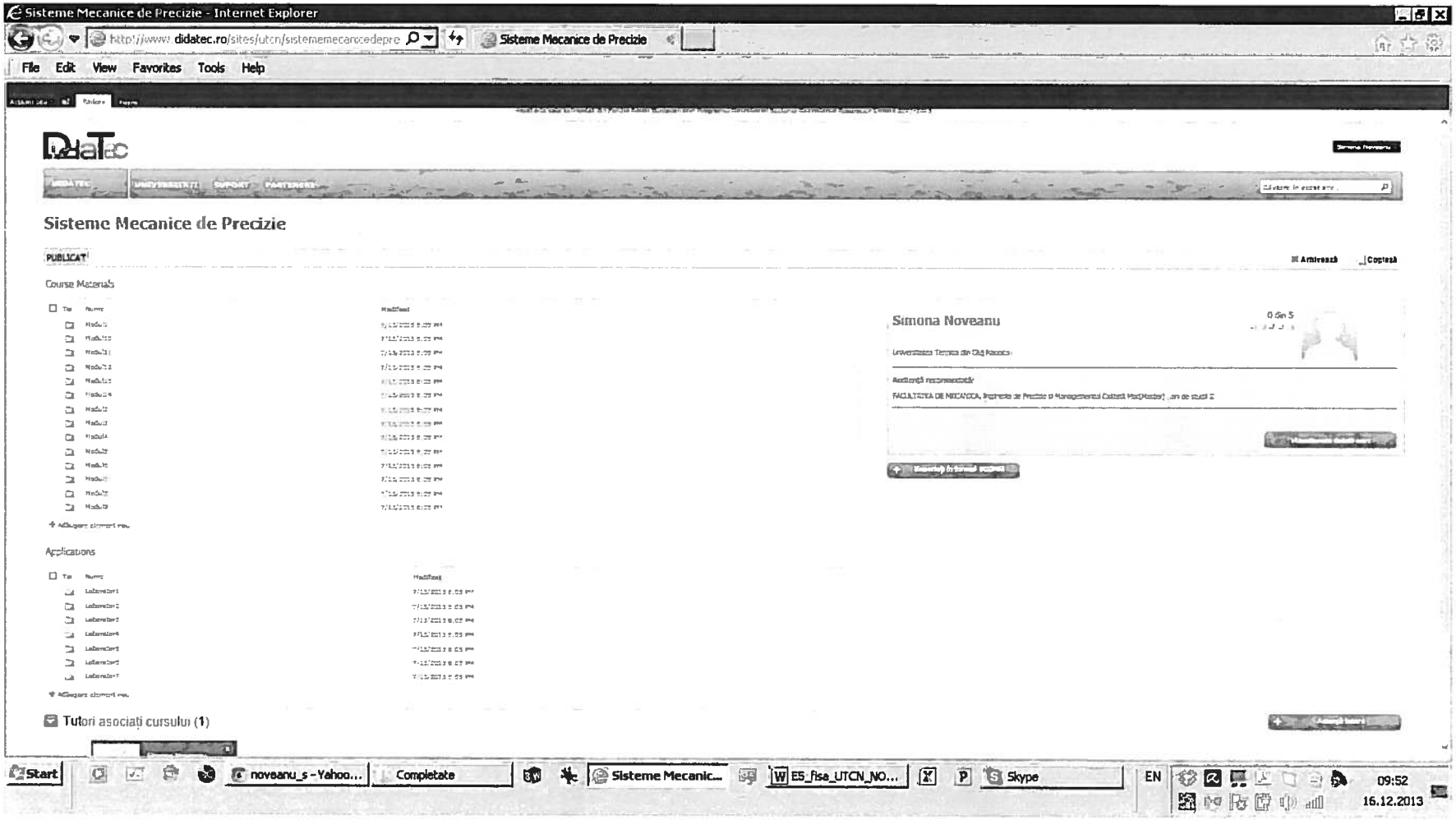
SISTEME MECANICE DE PRECIZIE



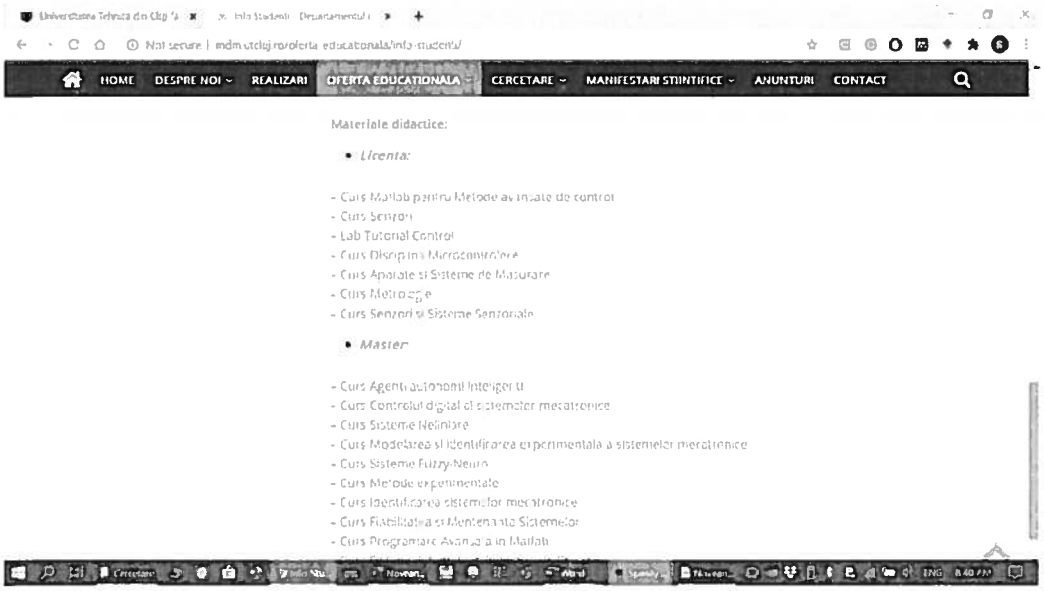
UTPRESS

Editura U.T.PRESS
str. Observatorului nr.34
C.P.42, O.P. 2
400775 Cluj-Napoca
e-mail: utpress@biblio.utcluj.ro

ISBN 978-606-737-432-2
http://biblioteca.utcluj.ro/editura


Sisteme Mecanice de Precizie - Internet Explorer
http://www.didatec.ro/sites/utcn/sistememecancedepre
Sisteme Mecanice de Precizie
File Edit View Favorites Tools Help
DidaTec
Sisteme Mecanice de Precizie
PUBLICAT
Course Materials
Simona Noveanu
Applications
Tutori asociați cursului (1)
Start
noveanu_s - Yahoo...
Completate
Sisteme Mecanic...
E5_fisa_UTCN_NO...
Skype
EN
09:52
16.12.2013

Curs Metrologie Online Departament MDM



AVIZ,

Departamentul de Mecatronică și Dinamica Mașinilor

Director

Prof.dr.ing. Mircea Bara

SISTEME MECANICE DE PRECIZIE

Standuri și Lucrări de laborator

Cuprins

Web of Science

Clarivate Analytics

Results: 21
(from Web of Science Core Collection)

Sort by: Date Times Cited Usage Count Relevance More

View author record(s) for noveanu s

You searched for: AUTHOR: (Noveanu S) ...More

Create an alert

Select Page Export... Add to Marked List

Analyze Results
Create Citation Report

Refine Results

Search within results for...

Filter results by:

Open Access (5)

Refine

Publication Years

- 2020 (1)
- 2017 (2)
- 2016 (4)
- 2015 (3)
- 2014 (2)

more options / values...

Refine

Web of Science Categories

- ENGINEERING MECHANICAL (8)
- AUTOMATION CONTROL SYSTEMS (7)
- ENGINEERING ELECTRICAL ELECTRONIC (4)
- ENERGY FUELS (2)
- ENGINEERING BIOMEDICAL (2)

more options / values...

Refine

Document Types

- PROCEEDINGS PAPER (15)
- ARTICLE (7)

more options / values...

1. **SIMFlex Micromanipulation Cell with Modular Structure**
   By: Noveanu, Simona; Ivan, Ioan Alexandru; Noveanu, Dan Cristian; et al.
   APPLIED SCIENCES-BASEL Volume: 10 Issue: 8 Article Number: 2861 Published: FEB 2020
   Free Full Text from Publisher View Abstract
   Times Cited: 0 *(from Web of Science Core Collection)*
   Usage Count

2. **Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires**
   By: Lungu, Ion; Ivan, Ioan Alexandru; Rakotondrabe, Micky; et al.
   CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 19 Issue: 2 Pages: 80-89 Published: JUN 2017
   View Abstract
   Times Cited: 0 *(from Web of Science Core Collection)*
   Usage Count

3. **Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment**
   By: Ianosi-Andreeva-Dimitrova, A.; Mandru, D. S.; Tatar, M. O.; et al.
   Conference: 5th International Conference on Advancements of Medicine and Health Care through Technology (MEDITECH) Location: Cluj Napoca, ROMANIA Date: OCT 12-15, 2016 Sponsor(s): Romanian Natl Soc Med Engn & Biol Technol; Laitek Med Software; Comelf SA; Avena Medica SRL; Tehno Ind SA; Cefmur SA; Temco SRL; Constelatia Construct SRL
   INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2016 Book Series: IFMBE Proceedings Volume: 59 Pages: 259-262 Published: 2017
   View Abstract
   Times Cited: 1 *(from Web of Science Core Collection)*
   Usage Count

4. **Shoulder-elbow exoskeleton as rehabilitation exerciser**
   By: Ianosi, A.; Dimitrova, A.; Noveanu, S.; et al.
   Conference: 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME) Location: Iasi, ROMANIA Date: JUN 09-10, 2016 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Mech Engn Fac; Romanian Minist Natl Educ & Sci Res; Romanian Acad Tech Sci; Acad Romanian Scientists
   7TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147 Article Number: UNSP 012048 Published: 2016
   Times Cited: 3 *(from Web of Science Core Collection)*
   Usage Count

Citation report for 20 results from Web of Science Core Collection between 2005 and 2018 Go

You searched for: AUTHOR: (Noveanu S) ...More

This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Export Data: Save to Excel File

Total Publications
20 Analyze

h-index
3

Average citations per item
2.55

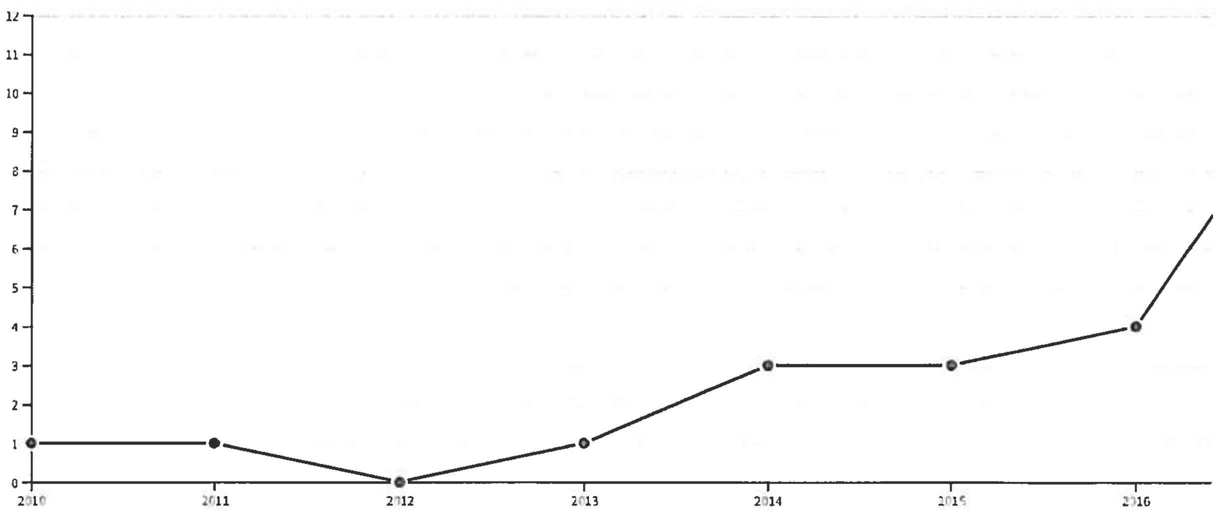
Sum of Times Cited
51

Without self citations
47

Citing articles
47 Analyze

Without self citations
44 Analyze

Sum of Times Cited per Year



Sort by: Times Cited Date More

1 of 2

How are these totals calculated?

2014	2015	2016	2017	2018	Total	Average Citations

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between 2005 and 2018 Go

							per Year
	3	3	4	11	7	51	4.64
1. Planar Compliances of Symmetric Notch Flexure Hinges: The Right Circularly Corner-Filleted Parabolic Design By: Lobontiu, Nicolae; Cullin, Matt; Petersen, Todd; et al. IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING Volume: 11 Issue: 1 Pages: 169-176 Published: JAN 2014	1	3	1	2	3	17	2.43
2. Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper By: Noveanu, Simona; Lobontiu, Nicolae; Lazaro, Joshua; et al. MECHANISM AND MACHINE THEORY Volume: 91 Pages: 1-20 Published: SEP 2015	0	0	1	4	3	16	2.67
3. Shape Memory Alloy Wires as Actuators for a Minirobot By: Mandru, D.; Lungu, I.; Noveanu, S.; et al. Conference: IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Location: Cluj Napoca, ROMANIA Date: MAY 28-30, 2010 Sponsor(s): IEEE PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3 Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2010	1	0	1	0	0	4	0.36
4. Shoulder-elbow exoskeleton as rehabilitation exerciser By: Ianosi, A.; Dimitrova, A.; Noveanu, S.; et al. Conference: 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME) Location: Iasi, ROMANIA Date: JUN 09-10, 2016 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Mech Engn Fac; Romanian Minist Natl Educ & Sci Res; Romanian Acad Tech Sci; Acad Romanian Scientists 7TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147 Article Number: UNSP 012048 Published: 2016	0	0	0	1	0	3	0.60
5. New actuation systems based on shape memory alloys By: Mandru, Dan; Lungu, Ion; Noveanu, Simona; et al. Conference: Conference on Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV Location: Constanta, ROMANIA Date: AUG 28-31, 2008 Sponsor(s): Politehnica Univ Bucharest, Optoelectron Res Ctr; Constanta Maritime Univ; SPIE; Romanian Minist Educ & Res; Electromagnetica Goldstar S.R.L.; Nitech S.R.L.; Electrica S.A. ADVANCED TOPICS IN OPTOELECTRONICS, MICROELECTRONICS, AND NANOTECHNOLOGIES IV Book Series: Proceedings of SPIE-The International Society for Optical Engineering Volume: 7297 Article Number: 72970P Published: 2009	0	0	0	2	0	3	0.25
6. Linear Active/Passive Upper Limb Exerciser By: Chetran, B.; Mandru, D.; Noveanu, S.; et al. Conference: 3rd International Conference on Advancements of Medicine and Health Care through Technology Location: Cluj Napoca, ROMANIA Date: AUG 29-SEP 02, 2011 INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY Book Series: IFMBE Proceedings Volume: 36 Pages: 152-155 Published: 2011	1	0	1	0	0	2	0.20
7. Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment By: Ianosi-Andreeva-Dimitrova, A.; Mandru, D. S.; Tatar, M. O.; et al.	0	0	0	1	0	1	0.25

Conference: 5th International Conference on Advancements of Medicine and Health Care through Technology (MEDITECH) Location: Cluj Napoca, ROMANIA Date: OCT 12-15, 2016
Sponsor(s): Romanian Natl Soc Med Engn & Biol Technol; Laitek Med Software; Comelf SA; Avena Medica SRL; Tehno Ind SA; Cefmur SA; Temco SRL; Constelatia Construct SRL
INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2016 Book Series: IFMBE Proceedings Volume: 59 Pages: 259-262 Published: 2017

8.	**DESIGN AND APPLICATION OF COMPLIANT MINI-GRIPPERS FOR HANDLING CHEMICALS** By: Lates, Daniel; Noveanu, Simona; Vencel, Csibi ARCHIVE OF MECHANICAL ENGINEERING Volume: 62 Issue: 2 Pages: 205-216 Published: JUN 2015	0	0	0	0	0	1	0.17
9.	**A Study of Suitable Resistive Torque Mechanisms for Rehabilitation Exoskeletons** By: Chetran, Beniamin; Tatar, Olimpiu; Noveanu, Simona; et al. Conference: 8th International Conference And Exposition On Electrical And Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 16-18, 2014 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Fac Elect Engn, IEEE Romania Sect; Grad Assoc, Fac Elect Engn Iasi 2014 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 178-181 Published: 2014	0	0	0	0	0	1	0.14
10.	**Structural Synthesis of the Upper Limb Modular Wearable Exercisers** By: Noveanu, Simona; Chetran, Beniamin; Tatar, Olimpiu; et al. Conference: 17th International Conference System Theory, Control and Computing (ICSTCC) Location: Sinaia, ROMANIA Date: OCT 11-13, 2013 Sponsor(s): IEEE; IEEE Control Syst Soc; Fac Automatica, Calculatoare Electronica; Fac Automatica Calculatoare; Fac ACIEE Galati; NETROM Romania; SINTEC MEDIA Romania; Ubisoft Romania; DOLSAT Consult; Polisea Romania; Top Edge Engn Romania; SMC Romania; Univ Craiova, Fac Automat, Comp & Elect, Automat Control Res Ctr 2013 17TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC) Pages: 693-698 Published: 2013	0	0	0	0	1	1	0.13

Select Page Save to Excel File

Sort by: Times Cited Date More 1 of 2

20 records matched your query of the 33,354,301 in the data limits you selected.
Key: – Structure available.

per Year

Use the checkboxes to remove individual items from this Citation Report

	3	3	4	11	7	51	4.64

or restrict to items published between 2005 and 2018 Go

11.	DESIGN AND MODELING OF A PIEZOELECTRICALLY ACTUATED MICROVALVE By: Rakotondrabe, M.; Ivan, I. A.; Stihi, V.; et al. Conference: 10th International Balkan Workshop on Applied Physics Location: Constanta, ROMANIA Date: JUN 06-08, 2009 ROMANIAN JOURNAL OF PHYSICS Volume: 56 Issue: 1-2 Pages: 141-149 Published: 2011	0	0	0	0	0	1	0.10
12.	Development of a Test Bench for SMA Wires By: Lungu, Ion; Mandru, Dan; Noveanu, Simona Conference: 5th International Conference on Mechatronic Systems and Materials Location: Vilnius, LITHUANIA Date: OCT 22-25, 2009 Sponsor(s): Vilnius Gediminas Techn Univ; Kaunas Univ Technol; Opole Univ Technol; Bialystok Techn Univ MECHATRONIC SYSTEMS AND MATERIALS: MECHATRONIC SYSTEMS AND ROBOTICS Book Series: Solid State Phenomena Volume: 164 Pages: 56-60 Published: 2010	0	0	0	1	0	1	0.09
13.	Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires By: Lungu, Ion; Ivan, Ioan Alexandru; Rakotondrabe, Micky; et al. CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 19 Issue: 2 Pages: 80-89 Published: JUN 2017	0	0	0	0	0	0	0.00
14.	A KBE tool for solving the mechanisms kinematics By: Rusu, C.; Tiuca, T. L.; Noveanu, S.; et al. Conference: 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME) Location: Iasi, ROMANIA Date: JUN 09-10, 2016 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Mech Engn Fac; Romanian Minist Natl Educ & Sci Res; Romanian Acad Tech Sci; Acad Romanian Scientists 7TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147 Article Number: UNSP 012080 Published: 2016	0	0	0	0	0	0	0.00
15.	General KBE model with inheritance and multi CAD support By: Tiuca, T. L.; Rusu, C.; Noveanu, S.; et al. Conference: 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME) Location: Iasi, ROMANIA Date: JUN 09-10, 2016 Sponsor(s): Gheorghe Asachi Tech Univ Iasi, Mech Engn Fac; Romanian Minist Natl Educ & Sci Res; Romanian Acad Tech Sci; Acad Romanian Scientists 7TH INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147 Article Number: UNSP 012066 Published: 2016	0	0	0	0	0	0	0.00
16.	A Brain-Computer Interface for the Control of a Finger Rehabilitation Glove By: Ianosi-Andreeva-Dimitrova, Alexandru; Mandru, Dan Silviu; Noveanu, Simona; et al. Conference: 9th International Conference and Exposition on Electrical and Power Engineering (EPE) Location: Iasi, ROMANIA Date: OCT 20-22, 2016 Sponsor(s): IEEE Romania Sect; Gheorghe Asachi Tech Univ Iasi, Fac Elect Engn; Grad Assoc Fac Elect Engn Iasi PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016) Book Series: International Conference and Exposition on Electrical and Power Engineering Pages: 344-347 Published: 2016	0	0	0	0	0	0	0.00
17.	THE SIMULATION AND THE INTERFACE OF THE MECHANISMS USED IN	0	0	0	0	0	0	0.00

MICROFACTORIES

By: Tiuca, Teodor; Rusu, Calin; Noveanu, Simona; et al.
ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume: 58 Issue: 4 Pages: 609-612 Published: NOV 2015

18. **Numerical Analysis and Experimental Research of a Compliant Minigripper**

By: Noveanu, Simona; Mandru, Dan; Lungu, Ion; et al.
Conference: 5th International Conference on Mechatronic Systems and Materials Location: Vilnius, LITHUANIA Date: OCT 22-25, 2009
Sponsor(s): Vilnius Gediminas Techn Univ; Kaunas Univ Technol; Opole Univ Technol; Bialystok Techn Univ
MECHATRONIC SYSTEMS AND MATERIALS: MECHATRONIC SYSTEMS AND ROBOTICS Book Series: Solid State Phenomena Volume: 164 Pages: 383-386 Published: 2010

0	0	0	0	0	0	0.00

19. **Design and Modelling a Mini-System with Piezoelectric Actuation**

By: Noveanu, S.; Csibi, V. I.; Ivan, A. I.; et al.
Conference: 3rd European Conference on Mechanisms Science (EUCOMES 2010 Conference) Location: Tech Univ Cluj Napoca, Fac Machine Bldg, Cluj Napoca, ROMANIA Date: SEP 14-18, 2010
Sponsor(s): Tech Univ Cluj Napoca, Ctr Ind Robots Simulat & Test; Int Federat Promot Mech & Machine Sci; Romanian Natl Author Sci Res ANCS
NEW TRENDS IN MECHANISM SCIENCE: ANALYSIS AND DESIGN Book Series: Mechanisms and Machine Science Volume: 5 Pages: 125-133 Published: 2010

0	0	0	0	0	0	0.00

20. **Research Concerning the Ramp and Sinusoidal Command Signals of the Piezoelectric Miniactuators**

By: Noveanu, Simona; Mandru, Dan; Ivan, Alexandru; et al.
Conference: 5th International Conference on Robotics and Automation Systems Location: Cluj Napoca, ROMANIA Date: SEP 23-25, 2010
ROBOTICS AND AUTOMATION SYSTEMS Book Series: Solid State Phenomena Volume: 166-167 Pages: 321 -+ Published: 2010

0	0	0	0	0	0	0.00

Select Page Save to Excel File

Sort by: Times Cited Date More 2 of 2

20 records matched your query of the 33,354,301 in the data limits you selected.
Key: = Structure available.

25 document results

Documents Secondary documents Patents

Analyze search results Show all abstracts Sort on: Date (newest)

All Export Download View citation overview View cited by Add to List •••

	Document title	Authors	Year	Source	Cited by
1	SiMFlex micromanipulation cell with modular structure *Open Access*	Noveanu, S., Ivan, I.A., Noveanu, D.C., Rusu, C., Lates, D.	2020	Applied Sciences (Switzerland) 10(8),1292	0
	View abstract ∨ View at Publisher Related documents				
2	Research Concerning the End-effectors for SiMFlex Micrograpper *Open Access*	Noveanu, S., Rusu, C., Rancea, C., Lateş, D.	2020	IOP Conference Series: Materials Science and Engineering 724(1),012055	0
	View abstract ∨ View at Publisher Related documents				
3	Design and control of a series of linear and rotary actuators based on shape memory alloy wires	Lungu, I., Ivan, I.A., Rakotondrabe, M., (...), Ştefan, V., Mândru, D.	2017	Control Engineering and Applied Informatics 19(2), pp. 80-89	0
	View abstract ∨ Related documents				
4	Motor imagery brain-computer interface for the control of a shoulder-elbow rehabilitation equipment	Ianoşi-Andreeva-Dimitrova, A., Mândru, D.S., Tătar, M.O., Noveanu, S.	2017	IFMBE Proceedings 59, pp. 259-262	1
	View abstract ∨ View at Publisher Related documents				
5	A brain-computer interface for the control of a finger rehabilitation glove	Ianosi-Andreeva-Dimitrova, A., Mandru, D.S., Noveanu, S., Tatar, M.O.	2016	Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016 7781359, pp. 344-347	1
	View abstract ∨ View at Publisher Related documents				
6	General KBE model with inheritance and multi CAD support *Open Access*	Tiuca, T.L., Rusu, C., Noveanu, S., Mandru, D.	2016	IOP Conference Series: Materials Science and Engineering 147(1),012066	0
	View abstract ∨ View at Publisher Related documents				
7	A KBE tool for solving the mechanisms kinematics *Open Access*	Rusu, C., Tiuca, T.L., Noveanu, S., Mândru, D.	2016	IOP Conference Series: Materials Science and Engineering 147(1),012080	2

	Document title	Authors	Year	Source	Cited by
	View abstract ⌄ View at Publisher Related documents				
☐ 8	Shoulder-elbow exoskeleton as rehabilitation exerciser *Open Access*	Ianoşi, A., Dimitrova, A., Noveanu, S., TĂtar, O.M., Mândru, D.S.	2016	IOP Conference Series: Materials Science and Engineering 147(1),012048	4
	View abstract ⌄ View at Publisher Related documents				
☐ 9	Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper	Noveanu, S., Lobontiu, N., Lazaro, J., Mandru, D.	2015	Mechanism and Machine Theory 91, pp. 1-20	20
	View abstract ⌄ View at Publisher Related documents				
☐ 10	Design and application of compliant mini-grippers for handling chemicals *Open Access*	Lates, D., Noveanu, S., Vencel, C.	2015	Archive of Mechanical Engineering 62(2), pp. 205-216	1
	View abstract ⌄ View at Publisher Related documents				
☐ 11	A study of suitable resistive torque mechanisms for rehabilitation exoskeletons	Chetran, B., Noveanu, S., Tatar, O., Mandru, D.	2014	EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering 6969892, pp. 178-181	1
	View abstract ⌄ View at Publisher Related documents				
☐ 12	Planar compliances of symmetric notch flexure hinges: The right circularly corner-filleted parabolic design	Lobontiu, N., Cullin, M., Petersen, T., Alcazar, J.A., Noveanu, S.	2014	IEEE Transactions on Automation Science and Engineering 11(1),6418064, pp. 169-176	24
	View abstract ⌄ View at Publisher Related documents				
☐ 13	Micropositioning system with flexure hinges for microfactories	Daniel, L., Simona, N., Vencel Iosif, C.	2014	Key Engineering Materials 581, pp. 485-490	1
	View abstract ⌄ View at Publisher Related documents				
☐ 14	A proposal for a driving system of a four DOF rehabilitation exoskeleton	Chetran, B., Tătar, O., Noveanu, S., Mândru, D.	2014	IFMBE Proceedings 44, pp. 7-10	0
	View abstract ⌄ View at Publisher Related documents				
☐ 15	Structural synthesis of the upper limb modular wearable exercisers	Noveanu, S., Chetran, B., Tatar, O., Raducanu, G., Mandru, D.	2013	2013 17th International Conference on System Theory, Control and Computing, ICSTCC 2013; Joint Conference of SINTES 2013, SACCS 2013, SIMSIS 2013 - Proceedings 6689041, pp. 693-698	3
	View abstract ⌄ View at Publisher Related documents				
☐ 16	Design and modeling of a piezoelectrically actuated microvalve	Rakotondrabe, M., Ivan, I.A., Stihi, V., Noveanu, S., Minca, E.	2011	Romanian Reports of Physics 56(1-2), pp. 141-149	2
	View abstract ⌄ Related documents				

	Document title	Authors	Year	Source	Cited by
☐ 17	Linear active/passive upper limb exerciser	Chetran, B., Mandru, D., Noveanu, S., Tatar, O.	2011	IFMBE Proceedings 36, pp. 152-155	2
	View abstract ⌄ View at Publisher Related documents				
☐ 18	Shape memory alloy wires as actuators for a minirobot	Mândru, D., Lungu, I., Noveanu, S., Tatar, O.	2010	2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings 1,5520861, pp. 333-336	5
	View abstract ⌄ View at Publisher Related documents				
☐ 19	Numerical analysis and experimental research of a compliant minigripper	Noveanu, S., Mândru, D., Lungu, I., Csibi, V.	2010	Solid State Phenomena 164, pp. 383-386	0
	View abstract ⌄ View at Publisher Related documents				
☐ 20	Research concerning the ramp and sinusoidal command signals of the piezoelectric miniactuators	Noveanu, S., Mandru, D., Ivan, A., Csibi, V.	2010	Solid State Phenomena 166-167, pp. 321-326	0
	View abstract ⌄ View at Publisher Related documents				
☐ 21	Development of a test bench for SMA wires	Lungu, I., Mândru, D., Noveanu, S.	2010	Solid State Phenomena 164, pp. 56-60	1
	View abstract ⌄ View at Publisher Related documents				
☐ 22	Design and modelling a mini-system with piezoelectric actuation	Noveanu, S., Csibi, V.I., Ivan, A.I., Mândru, D.	2010	Mechanisms and Machine Science 5, pp. 125-133	0
	View abstract ⌄ View at Publisher Related documents				
☐ 23	New actuation systems based on shape memory alloys	Mândru, D., Lungu, I., Noveanu, S., Tătar, O.	2009	Proceedings of SPIE - The International Society for Optical Engineering 7297,72970P	5
	View abstract ⌄ View at Publisher Related documents				
☐ 24	Analysis of time response of shape memory alloy actuators modular system	Mândru, D., Lungu, I., Noveanu, S., Tătar, O.	2009	Solid State Phenomena 147-149, pp. 726-731	1
	View abstract ⌄ View at Publisher Related documents				
☐ 25	Less expensive equipment for mechatronics training and education	Lungu, I., Mândru, D., Noveanu, S.	2008	Elektronika ir Elektrotechnika (1), pp. 37-40	1
	View abstract ⌄ Related documents				

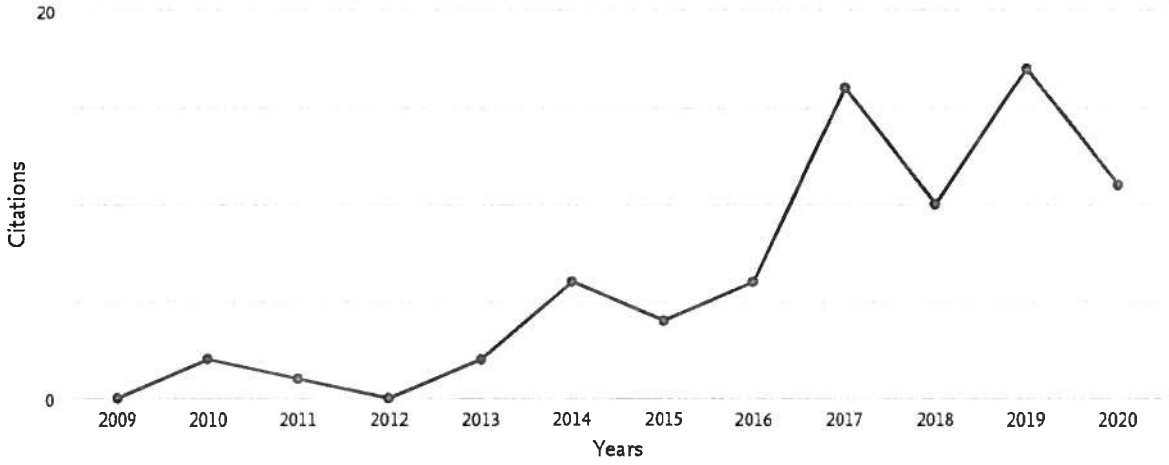
Citation overview

Back to document results Export Print

This is an overview of citations for the documents you've selected. Document *h*-index : 4 View *h*-graph

25 cited documents + Add to list

Date range: 2009 to 2020 Exclude self citations of all authors Exclude citations from books Update



Sort on: Date (newest)

Page Remove

	Documents	Citations	<2009	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Subtotal	>2020	Total
		Total	0	0	2	1	0	2	6	4	6	16	10	17	11	75	0	75
1	SiMFlex micromanipulation cell with modular structure	2020														0		0
2	Research Concerning the End-effectors for SiMFlex Micrograpp...	2020														0		0
3	Design and control of a series of linear and rotary actuator...	2017														0		0
4	Motor imagery brain-computer interface for the control of a ...	2017										1				1		1
5	A brain-computer interface for the control of a finger rehab...	2016										1				1		1
6	A KBE tool for solving the mechanisms kinematics	2016													2	2		2
7	Shoulder-elbow exoskeleton as rehabilitation exerciser	2016										1		2	1	4		4
8	General KBE model with inheritance and multi CAD support	2016														0		0
9	Substructure compliance matrix model of planar branched flex...	2015									1	5	3	9	2	20		20
10	Design and application of compliant mini-grippers for handli...	2015													1	1		1
11	A proposal for a driving system of a four DOF rehabilitation...	2014														0		0
12	A study of suitable resistive torque mechanisms for rehabili...	2014												1		1		1

	Documents	Citations	<2009	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Subtotal	>2020	Total
		Total	0	0	2	1	0	2	6	4	6	16	10	17	11	75	0	75
☐	13 Micropositioning system with flexure hinges for microfactori...	2014											1			1		1
☐	14 Planar compliances of symmetric notch flexure hinges: The ri...	2014							3	3	2	3	5	5	3	24		24
☐	15 Structural synthesis of the upper limb modular wearable exer...	2013							1		1		1			3		3
☐	16 Design and modeling of a piezoelectrically actuated microval...	2011													2	2		2
☐	17 Linear active/passive upper limb exerciser	2011							1		1					2		2
☐	18 Shape memory alloy wires as actuators for a minirobot	2010				1		1		1	1	1				5		5
☐	19 Design and modelling a mini-system with piezoelectric actuat...	2010														0		0
☐	20 Research concerning the ramp and sinusoidal command signals ...	2010														0		0
☐	21 Numerical analysis and experimental research of a compliant ...	2010														0		0
☐	22 Development of a test bench for SMA wires	2010										1				1		1
☐	23 New actuation systems based on shape memory alloys	2009			1			1	1			2				5		5
☐	24 Analysis of time response of shape memory alloy actuators mo...	2009										1				1		1
☐	25 Less expensive equipment for mechatronics training and educa...	2008			1											1		1

Display: 50 results per page

1

Top of page

Simona Noveanu

Tehnical University of Cluj-Napoca
Mechanisms
Mechanical Engineering
Mechatronics

	All	Since 2015
Citations	181	104
h-index	7	4
i10-index	4	2

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Planar compliances of symmetric notch flexure hinges: The right circularly corner-filleted parabolic design N Lobontiu, M Cullin, T Petersen, JA Alcazar, S Noveanu IEEE Transactions on Automation Science and Engineering 11 (1), 169-176				26	2013
Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper S Noveanu, N Lobontiu, J Lazaro, D Mandru Mechanism and Machine Theory 91, 1-20				24	2015
Applications of shape memory alloy actuators in biomedical engineering D Mandru, I Lungu, S Noveanu, O Tatar Annals of the Oradea University, Fascicle Manage. Technol. Eng 7, 922-927				10	2008
Research concerning the development of a robotic system for rehabilitation exercises. D Mândru, C Rusu, S Noveanu Mecatronica				10	2004
Shape memory alloy wires as actuators for a minirobot D Mandru, I Lungu, S Noveanu, O Tătar 2010 IEEE International Conference on Automation, Quality and Testing ...				9	2010
Actuating Systems in Precision Mechanics and Mechatronics D Mândru, R Crişan, O Tătar, S Noveanu Alma Mater, Cluj-Napoca				9	2004
Acţionări în mecanica fină şi mecatronică D Mândru, R Crişan, OM Tătar, S Noveanu Alma Mater				8	2004
Structural synthesis of the upper limb modular wearable exercisers S Noveanu, B Chetran, O Tatar, G Raducanu, D Mândru 2013 17th International Conference on System Theory, Control and Computing ...				6	2013
New actuation systems based on shape memory alloys D Mândru, I Lungu, S Noveanu, O Tătar Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies ...				5	2009
Shoulder-elbow exoskeleton as rehabilitation exerciser A Ianoşi, A Dimitrova, S Noveanu, OM Tătar, DS Mândru IOP Conf. Mater. Sci. Eng. 147 (1), 012048				4	2016
Numerical Analysis and Experimental Research of a Compliant Minigripper S Noveanu, D Mândru, I Lungu, VI Csibi Solid State Phenomena 164, 383-386				4	2010

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Research concerning micromanipulation and design of microgrippers Csibi, V., Mândru, D., Noveanu, S., Crişan, R. Miskolcer Gesprache, Die neuesten ergebnisse auf dem gebiet fordertechnik ...				4 *	2003
Study of a General KBE Model for Mechanical Systems Analysis T Tiuca, C Rusu, S Noveanu, D Mândru Scientific Bulletin Series C: Fascicle Mechanics, Tribology, Machine ...				3	2015
A study of suitable resistive torque mechanisms for rehabilitation exoskeletons B Chetran, S Noveanu, O Tatar, D Mândru 2014 International Conference and Exposition on Electrical and Power ...				3	2014
Micropositioning system with flexure hinges for microfactories D Lates, S Noveanu, VI Csibi Key Engineering Materials 581, 485-490				3	2014
Analytical study on compliant joints with asymmetrical profiles D Lates, S Noveanu, M Zah Proceedings of the 21th International Conference on Mechanical Engineering ...				3	2013
Characterization Methods of a 2 DOF Micro Positioning Compliant Mechanism D Lateş, S Noveanu, V Csibi Acta Universitatis Sapientiae, Electrical and Mechanical Engineering, ISSN ...				3	2013
Design and modeling of a piezoelectrically actuated microvalve. M Rakotondrabe, I Ivan, V Stihi, S Noveanu, E Minca				3	2011
Design and Modelling a Mini-System with Piezoelectric Actuation S Noveanu, VI Csibi, AI Ivan, Mândru, Dan New Trends in Mechanism Science, 125-133				3	2010
User centered design of rehabilitation engineering systems D Mandru, I Lungu, S Noveanu, O Tatar Acta Technica Napocensis, series: Applied Mathematics and Mechanics 52, 475-480				3	2009
Research Concerning the Use of Shape Memory Alloys as Actuators D Mândru, I Lungu, S Noveanu Scientific Bulletin of Maritime University Constanta 9, 293-298				3	2006
A KBE tool for solving the mechanisms kinematics C Rusu, TL Tiuca, S Noveanu, D Mândru IOP Conference Series: Materials Science and Engineering 147 (1), 12080-12085				2	2016
Design and application of compliant mini-grippers for handling chemicals D Lateş, S Noveanu, C Vencel Archive of Mechanical Engineering 62 (2), 205--216				2	2015
A Proposal for a Driving System of a Four DOF Rehabilitation Exoskeleton B Chetran, O Tătar, S Noveanu, D Mândru International Conference on Advancements of Medicine and Health Care through ...				2	2014

TITLE MERGE DELETE EXPORT	CITED BY	YEAR
THE KINEMATIC MODEL OF 3 DOF REHABILITATION ROBOTIC EXOSKELETONS. MO Tătar, D Mândru, S Noveanu, B Chetran Robotica & Management 18 (2)	2	2013
Linear active/passive upper limb exerciser B Chetran, D Mandru, S Noveanu, O Tatar International Conference on Advancements of Medicine and Health Care through ...	2	2011
Robotic Actuation Systems Based on Shape Memory Alloy Actuators D Mandru, O Tatar, S Noveanu, I Lungu Proceedings of IEEE International Conference on Automation, Quality and ...	2	2008
Docking Mechanism Actuated by Shape Memory Alloy Actuator I Lungu, D Mândru, S Noveanu, O Tătar Proceedings of the 7th France-Japan Congress on Mechatronics	2	2008
Less Expensive Equipment for Mechatronics Training and Education. I Lungu, D Mândru, S Noveanu Electronics & Electrical Engineering	2	2008
Shape Memory Alloy Actuators for Upper Limb Prostheses D MANDRU, O TATAR, S NOVEANU Transilvania University Press of Braşov	2	2006
Interactive System for Learning the Braille Alphabet and the Fingerspelling Signs D Mândru, O TATAR, S NOVEANU Annals of the Univ. Oradea, Fascicle of Manag. and Technological Eng 5, 631-638	2 *	2006
A Bevel Cycloidal Drive C Csibi, V., Noveanu, S., Szancsali Miskolcer Gesprache, Die neuesten ergebnisse auf dem gebiet fordertechnik ...	2 *	2004
Motor Imagery Brain-Computer Interface for the Control of a Shoulder-Elbow Rehabilitation Equipment A Ianoși-Andreeva-Dimitrova, DS Mândru, MO Tătar, S Noveanu International Conference on Advancements of Medicine and Health Care through ...	1	2017
A brain-computer interface for the control of a finger rehabilitation glove A Ianoşi-Andreeva-Dimitrova, DS Mândru, S Noveanu, MO Tătar 2016 International Conference and Exposition on Electrical and Power ...	1	2016
Assistive technology student demonstrators developed in a project-based learning approach D Mândru, A Abrudean, S Noveanu, A Ianosi-Andreeva-Dimitrova Journal Plus Education, 25-29	1	2015
Innovative Assistive and Rehabilitation Robotic Systems D Mândru, A Ianosi-Andreeva-Dimitrova, A Abrudean, S Noveanu, ... Journal Plus Education, 30-34	1	2015

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Design and Simulation the Manipulator SI2M Used in Microfactories S Noveanu, C Rusu, D Mândru Applied Mechanics and Materials 762, 27-32				1	2015
ACTUATING SYSTEMS BASED ON TWO BELLOWS. VS JIŞA, B CHETRAN, S NOVEANU, N CRIŞAN Fiability & Durability/Fiabilitate si Durabilitate				1	2013
Electrorheological fluid based brake for active physiotherapy systems B Chetran, D Mândru, S Noveanu, O Tătar, G Răducanu Acta Universitatis Sapientiae-Electrical & Mechanical Engineering 4				1	2012
Development of a test bench for SMA wires I Lungu, D Mândru, S Noveanu Solid State Phenomena 164, 56-60				1	2010
Research Concerning the Ramp and Sinusoidal Command Signals of the Piezoelectric Miniactuators S Noveanu, D Mandru, A Ivan, VI Csibi Solid State Phenomena 166, 321-326				1	2010
Analysis of Time Response of Shape Memory Alloy Actuators Modular System D Mândru, I Lungu, S Noveanu, MO Tătar Solid State Phenomena 147, 726-731				1	2009
Locking Systems Based on Compliant Mechanisms S NOVEANU, D MÂNDRU Proceedings of Acta Technica Napocensis, 857-862				1	2008
Educational Tool for Children with Sensorial Disabilities D Mândru, S Noveanu, O Tătar Acta Electrotehnica 48 (4), 7-12				1	2007
Research Concerning the Compliant Minigrippers. S Noveanu, I Lungu Mecatronica				1	2006
A New Compliant Microgripper and Study for Flexure Hinges Shapes S Noveanu, D Lates, L Fusaru, C Rusu Procedia Manufacturing 46, 517-524					2020
SiMFlex Micromanipulation Cell with Modular Structure S Noveanu, IA Ivan, DC Noveanu, C Rusu, D Lates Applied Sciences 10 (8), 2861					2020
Research Concerning the End-effectors for SiMFlex Microgripper S Noveanu, C Rusu, C Rancea, D Lateş IOP Conference Series: Materials Science and Engineering 724 (1), 012055					2020
The Flex Mentoring model Proposed in the HEIBus project S NOVEANU, C LĂPUŞAN, C RUSU, C RAD Review of Management & Economic Engineering 18 (4)					2019

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Design and Control of a Series of Linear and Rotary Actuators based on Shape Memory Alloy Wires DM Ion Lungu, Ioan Alexandru Ivan,, Micky Rakotondrabe, Simona Noveanu ... CONTROL ENGINEERING AND APPLIED INFORMATICS 81 19 (2), 80-89					2017
General KBE model with inheritance and multi CAD support TL Tiuca, C Rusu, S Noveanu, D Mandru MS&E 147 (1), 012066					2016
Design and Modelling 4 DOFs Upper Limb Exoskeleton D Mândru, O Tătar, S Noveanu, A Ianoşi-Andreeva-Dimitrova Applied Mechanics and Materials 823, 107-112					2016
THE SIMULATION AND THE INTERFACE OF THE MECHANISMS USED IN MICROFACTORIES T TIUCĂ, R Călin, S Noveanu, S Besoiu, D Mandru ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ...					2015
Innovative Assistive and Rehabilitation Robotic Systems. M Dan, IAD Alexandru, N Simona, T Olimpiu, A Adrian Journal Plus Education/Educatia Plus					2015
The Design and Optimization of a Compliant Gripper used KBE Tools Tiuca T., Rusu C., Noveanu S., , Besoiu S., Csibi V. Proceedings 23th International Conference on Mechanical Engineering OGET ...					2015
Adjustable cycloidal speed reducer with conical bolts Zah, M., Lates, D., Noveanu, S., Csibi V. Proceedings of the 21th International Conference in Mechanical Engineering ...					2013
Modelling of the Upper Limb Wearable Exercisers B Chetran, S Noveanu, G Răducanu, O Tătar, D Mândru Annals of the University of Craiova. Automation, Computers, Electronics and ...					2013
Két szabadságfokú, rugalmaskötéses robot. Two-Dof Robot with Flexure Hinge. Lates, D., Noveanu, S., Zah,, M., Csibi, V. Muszaki Szemle Technical Review, 14-20					2013
Actuation and simulation of a minisystem with flexure hinges Noveanu D., Csibi V., Lungu I., Noveanu S., Pop R. Proceedings of the 4th International Conference Computational Mechanics and ...					2011
The FEM Analysis of Compliant Mechanisms and Geometrical Advantages Noveanu S., Csibi V., Mandru D., Noveanu D., Pop R. Proceedings 19th International Conference on Mechanical Engineering OGET ...					2011
Experimental research of a mini-system with piezoelectric actuation ND Noveanu S., Mândru D., Lungu I., Csibi V. Proceedings of the The 6th International Conference Mechatronic Systems and ...					2010

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Mechanical structure of modular SMA actuators Mândru, D, Lungu, I., Noveanu, S., Tatar, O. Acta Technica Napocensis. Applied Mathematics and Mechanics 52 (III), 143-146					2009
Towards on design of smart materials' applications Mândru, D., Noveanu, S., Lungu, I., Glodean, D. Acta Technica Napocensis. Applied Mathematics and Mechanics. 52, 481-486					2009
Design of a disconnection mechanism for modular reconfigurable robot Lungu, I., Mândru, D., Noveanu, S., Csibi, V. Acta Technica Napocensis, series: Applied Mathematics and Mechanics 52 (1b ...					2009
Development of miniaturized systems based on compliant mechanisms Noveanu, S., Mândru, D., Lungu, I., Tatar, O. Proceedings of the AFASES 2009 – The International Session of the XI-th ...					2009
Design of compliant mechanisms Noveanu, S., Csibi, V., Noveanu, D., Mândru, D. Acta Technica Napocensis. Applied Mathematics and Mechanics. 52, 523 - 528					2009
The FEM Analysis of Compliant Minigrippers Noveanu, S., Csibi, V, Mândru, D., Lungu, I. Muszaki Szemle Technical Review 3, 286 - 290					2009
Family of linear actuators based on shape memory alloy – modular design Mândru, D., Lungu, I., Noveanu, S. Machine Design, 91-94					2009
Mechanical structure of modular SMA actuators Mândru, D, Lungu, I., Noveanu, S., Tatar, O. Proceedings of the 2nd International Conference Advanced Engineering In ...					2009
Modelling, Analysis and Simulation of a Compliant Micro-Positioning Mechanism Noveanu, S., Lungu, I., Csibi, V., Mândru, D. Scientific Bulletin of the Politechnic Institut, Iaşi, 54, 137-142					2008
The Compliant Micro-Positioning Mechanism Actuation by Shape Memory Alloys Wire Noveanu, S., Lungu, I., Csibi, V Muszaki Szemle Technical Review 1					2008
The FEM analysis of compliant mechanisms Noveanu, S., Lungu, I., Csibi, V Scientific Bulletin of the Politehnica Univiversity of Timisoara ...					2008
Research concerning the compliant minigrippers Noveanu, S., Csibi, V., Lungu, I. Mecatronica, 41-46					2007
Manipulator used in a microfactory Lungu, I., Csibi, V., Noveanu, S. Mecatronica 1, 35-40					2007

TITLE	MERGE	DELETE	EXPORT	CITED BY	YEAR
Research Concerning The Geometry of Flexure Hinges I Noveanu, S., Csibi, V., Radutiu, V., Lungu Acta Technica Napocensis. Applied Mathematics and Mechanics. 50, 151 - 157					2007
Design of a Manipulator in the Structure of a Microfactory. I Lungu, S Noveanu, VI Csibi Mecatronica					2006
Compliant mechanism with piezoelectric actuation Csibi V., Lungu, I., Noveanu S. Proceedings of the 14th International Conference in Mechanical Engineering ...					2006
INFLUENCE OF THE FLEXURE HINGE GEOMETRY ON COMPLIANT MECHANISMS FUNCTIONING S NOVEANU, V CSIBI, N LOBONTIU Transilvania University Press of Braşov					2005
COMPLIANT MECHANISMS ACTUATED BY SHAPE MEMORY ALLOY ACTUATORS D MANDRU, S NOVEANU, R CRISAN, N LOBONTIU Transilvania University Press of Braşov					2005
Research Concerning Analysis of Compliant Joints with Parabolic and Hyperbolic Profiles Noveanu, S., Csibi, V, Mândru, D. Proceedings of the 13th International Conference in Mechanical Engineering ...					2005
Development of a passive forearm exerciser I Mândru, D., Tatar, O., Noveanu, S., Lungu Proceedings of the Scientific Conference with International Participation ...					2005
Modeling and Design of Tuning-Fork Microresonators. N Lobonţlu, D Mândru, S Noveanu Mecatronica					2004
Grippers With Compliant Mechanisms Csibi, V, Noveanu, S., Noveanu, D. A 2-a Conferinta Internationala de Robotica , Timisoara Resita 1					2004
Analysis of Compliant Mechanisms Using Finite Element D Noveanu, S., Csibi, V, Noveanu Acta Technica Napocensis. Applied Mathematics and Mechanics. 2 (47)					2004
Rugalmas kapcsolódású mechanizmusok Noveanu, S., Csibi, V. Proceedings of the 11th International Conference in Mechanical Engineering ...					2003

ROMÂNIA

DUPLICAT

ELIBERAT INVENTATORULUI
în baza Art.34 alin.(2),
din Legea nr.64/1991 republicată

OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI

Brevet de invenție

Nr. 127385

Acordat în temeiul Legii nr.64/1991 privind brevetele de invenţie, republicată în Monitorul Oficial al României, Partea I, nr.613, din 19 august 2014.

Titular: UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA, CLUJ-NAPOCA, CJ, RO

Titlul invenţiei: MINIGRIPER COMPLIANT CU ACTUATOR PIEZOELECTRIC

Inventatori: NOVEANU SIMONA, CLUJ-NAPOCA, CJ, RO; CSIBI IOSIF VENCEL, CLUJ-NAPOCA, CJ, RO; MÂNDRU DAN, CLUJ-NAPOCA, CJ, RO; NOVEANU DAN CRISTIAN, CLUJ-NAPOCA, CJ, RO; LUNGU ION, CLUJ-NAPOCA, CJ, RO

Descrierea invenţiei, revendicările şi desenele la care se face referinţă în acestea, fac parte integrantă din prezentul brevet de invenţie.
Durata brevetului de invenţie este de 20 ani, cu începere de la data de 08/12/2011, cu condiţia plăţii taxelor anuale de menţinere în vigoare a brevetului.

Conform celor de mai sus prin semnarea şi aplicarea sigiliului
Director General
Alexandru - Ioan Andrei

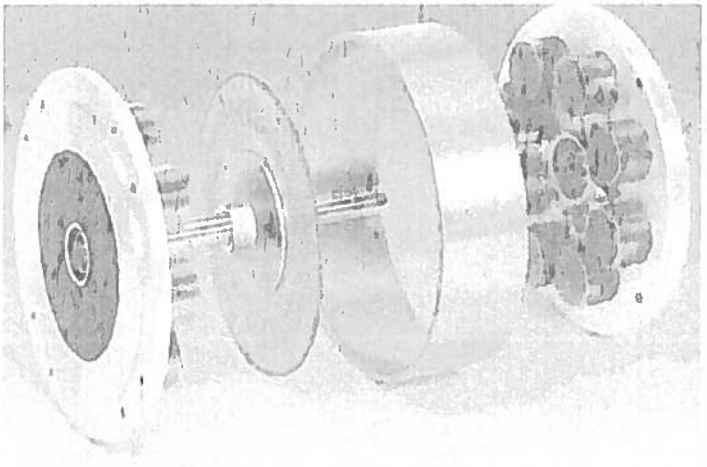
OFICIUL DE STAT PENTRU INVENȚII ȘI MĂRCI · ROMÂNIA ·

București, Data eliberării 30/10/2015

Tipărit la C.N. „Imprimeria Națională" S.A.

Dan MÂNDRU
Olimpiu TĂTAR
Rareș CRIȘAN
Simona NOVEANU

ACȚIONĂRI ÎN MECANICA FINĂ ȘI MECATRONICĂ



Editura ALMA MATER 2004
Cluj-Napoca

Olimpiu TĂTAR Simona NOVEANU ACȚIONĂRI ÎN MECANICA FINĂ ȘI MECATRONICĂ

ISBN 973-8397-69-3

A konferencia programja

Csütörtök, május 8.

Helyszín:	Bethlen Kata Diakóniai Központ (Ponorului u. 1.)
$15^{00} - 21^{00}$	regisztráció, elszállásolás
$20^{00} - 22^{00}$	vacsora

Péntek, május 9.

Egész napos kirándulás Kolozsvár környékére.

Útvonal:	Kolozsvár-Magyarvista-Jegenye-Magyargyerőmonostor-Magyarvalkó-Jósikafalva-Tárnica-Kolozsvár
Ebéd:	a jegenyei menedékháznál.

Szombat, május 10.

Helyszín:	Bethlen Kata Diakóniai Központ (Ponorului u. 1.)
9^{00}	a konferencia megnyitója, köszöntők
9^{30}	plenáris előadások
11^{00}	kávészünet
11^{30}	plenáris előadások
13^{00}	ebéd
15^{00}	szekció-előadások
20^{00}	állófogadás

Vasárnap, május 11.

reggeli után hazautazás

Plenáris előadások

Ülésvezető: *Csibi Vencel–József*

9^{30} Dr. Gyenge Csaba
Kolozsvári Műszaki Egyetem, Románia
Rapidoprototyping a Kolozsvári Műszaki Egyetemen

10^{00} Dr. Döbröczöni Ádám,
Miskolci Egyetem, Magyarország
Szakirányok a Miskolci Egyetem Gépészmérnöki Karán

10^{30} Dr. Nagy Vince, Alf Martienssen, Gál Péter
Széchenyi István Egyetem,
Merten és Martienssen Kft., Győr, Magyarország
Minőség – hatékonyság – biztonság és az európai képesség

11^{00} kávészünet

11^{30} Dr. Boza Pál
Kecskeméti Főiskola, Magyarország
Készre hőkezelt szabadtérbeli felületek megmunkálása nagysebességű marással

12^{00} Dr. Besenyei Lajos
Miskolci Egyetem, Magyarország
A XXI. Század – a paradigmaváltás évszázada

12^{30} Dr. Sándor László
Kolozsvári Műszaki Egyetem, Románia
Automata gépkocsi-sebességváltók múltja és jövője

ERDÉLYI MAGYAR MŰSZAKI TUDOMÁNYOS TÁRSASÁG – EMT –

XI. NEMZETKÖZI GÉPÉSZ TALÁLKOZÓ

OGÉT 2003

2003. május 8-11. Kolozsvár

Szervező

Erdélyi Magyar Műszaki Tudományos Társaság – EMT
Gépészeti Szakosztály

Társszervezők

Miskolci Egyetem, Gépészmérnöki Kar
Budapesti Műszaki és Gazdaságtudományi Egyetem, Gépészmérnöki Kar, Finommechanikai Optikai Tanszék

A konferencia elnöke

Dr. Csibi Vencel-József,
az EMT Gépészeti Szakosztályának elnöke

Támogatók

Illyés Közalapítvány – Budapest
Pro Technica Alapítvány – Kolozsvár

A konferencia szervezőbizottsága

Horváth Erika
Kirei Botond
Kovács Enikő
Pap Tünde
Prokop Zoltán
Szakács Dalma

A konferencia helyszíne

Kolozsvár,
Bethlen Kata Diakóniai Központ, Ponorului u. 1.

Szekcióelőadások

Finommechanika, mechatronika szekció

Ülésvezetők: *Halmai Attila, Váradiné Sz. Angéla*

15[00] Szabó Ottó
Mechatronikai modell-berendezés sokszög- és fogazott felületek NC pályavezérlésének vizsgálatához

15[15] Rick Tamás
A konstrukciós tervezési folyamat optimálása mesterséges intelligencia módszerek alkalmazásával

15[30] Kövesi Anita
Az elektromos és elektronikai berendezések szerkezeti kialakítása az újrahasznosítás céljából

15[45] Halmai Attila, Meszlényi György,Suda Jenő
Minimális veszteségű DC törpemotor

16[00] Molnár László, Czmerk András, Fischl Tamás
Szilikon elasztomerek dinamikus mechanikai analízise, a WLF-egyenlet alkalmazhatóságának vizsgálata

16[15] Molnár László, Kiglics Gábor
Tárcsás DC motor analízise végeselem módszerrel

16[30] Biró Sándor, Csibi Vencel-József
Szilikon egyenirányító szelep süllyesztőszerszámának megvalósítása

16[45] Ábrahám György, Nagy Balázs Vince
A szintévesztés korrigálása és mérése

17[00] szünet

Ülésvezetők: *Wenzel Klára, Csibi Vencel*

17[15] Wenzel Klára
Humanoid, színesen látó robot-érzékelő rendszer

17[30] Gál Péter
Korszerű szelepvezérlő berendezések tribológiai viszonyai

17[45] Váradiné Szarka Angéla
Modern mérőberendezések alkalmazása mechatronikai rendszerekben

18[00] Vidovics Balázs
A tudattalan tudás a tervezői munkában

18[15] Forgó Zoltán
Egy 3 és egy 4 szabadságfokú párhuzamos mechanizmus munkaterének vizsgálata

18[30] Simona Noveanu, Csibi Vencel
Rugalmas kapcsolódású mechanizmusok

18[45] Dan Mândru, Olimpiu Tătar
Termikus aktuátorok - szerkezet és működés

19[00] Koltai Zoltán
Kerámia fémhalogén lámpa zománc beforrasztásánál keletkező hőfeszültségek elemzése

Általános gépészet szekció

Ülésvezetők: *Boza Pál, Szőcs Katalin*

15[00] Palásti Kovács Béla, Czifra Árpád, Váradi Károly
A mikrotopográfia változása a kopási folyamat során

15[15] Demeter Péter
Sokszögfelületek előállítására alkalmas mechanizmusok kinematikai vizsgálata

15[30] Kövesi Levente
Poligon keresztmetszetű tabletta alak és tablettázó szerszámok

15[45] Bernáth Mihály, Végvári Ferenc
Négyzetes lyukasztás poliuretán párnával

16[00] Marosfalvi János
Polomer gépszerkezeti elemek kettős szempontú méretezésének elvei és módszerei

16[15] Jakab Endre, Vizi Gábor
2D-s NC szerszámgépek struktúrái tárcsaszerű alkatrészek megmunkálására

16[30] Szabó Ottó
Dörzsköszörülés anyagleválasztási és kopási folyamatai

16[45] Szabó Ottó
Dörzsköszörülés forgácsleválasztási teljesítményének növelése szuperkemény szerszámokkal

17[00] szünet

Ülésvezetők: *Szabó Ottó, Gyenge Csaba*

17[15] Szőcs Katalin
A hőálló gömbgrafitos vas ipari alkalmazása

17[30] Bernáth Mihály, Végvári Ferenc
Négyzetes munkadarabok kivágása poliuretán párnával

17[45] Lukács Zsolt, Gál Gaszton
Anyagáramlás vizsgálata hátrafolyatási technológiánál

18[00] Novák Csaba, Varga László
Könnyűszerkezetű raktár egy szerkezeti elemének alakoptimálása

18[15] Bisztray Balku Sándor
Hidraulika dugattyú és dugattyurúd tömítések tribológiai tulajdonságai és fejlődése

18[30] Zsigmond Balázs
Szénszálerősítésű, fonatolt kompozit profil gyártása

18[45] Papp István
A forgócsukló kényszeregyenleteinek egyszerűbb alakja

TECHNICAL UNIVERSITY
OF CLUJ-NAPOCA

ARoTMM

IFToMM

THE 9th INTERNATIONAL CONFERENCE
OF MECHANISMS AND MECHANICAL
TRANSMISSIONS

MTM 2004

FINAL PROGRAMME

JUNE 10-12, 2004

CLUJ - NAPOCA, ROMANIA

GENERAL CHAIRMAN
V. MĂTIEŞ

CHAIRMEN

V. CSIBI F. SUCALA I. ARDELEAN

INTERNATIONAL SCIENTIFIC COMMITTEE ORGANISING COMMITTEE

P. ANTONESCU	RO	M. KIVIKOSKI	FI	I. ARDELEAN
A. ANTAL	RO	F. KOVACS	RO	D. BARBU
I. ARDELEAN	RO	D. MAROS	RO	R. CHIRA
M. BARA	RO	V. MATIES	RO	R. CRISAN
R. BALAN	RO	D. MATIESAN	RO	A. GLIGA
C. BARLEANU	RO	D. MANDRU	RO	O. HANCU
S. BOJAN	RO	I. MANIU	RO	S. HARAGAS
I. BOJTAR	HU	S. MITSI	GR	G. KEREKES
V. BOLOS	RO	Y. MIZUGAKI	JP	S. NOVEANU
K.D.BOUZAKIS	GR	K. H. MODLER	DE	M. OPRIS
O. BELCIN	RO	V. NAGY	HU	C. POPA
C. BRISAN	RO	N. ORLANDEA	USA	M. PUSTAN
H.Van BRUSSEL	BE	D. PERJU	RO	C. RUSU
A. CAZILA	RO	D. POP	RO	S. STAN
V. CSIBI	RO	F. SUCALA	RO	F. SZABO
G. DOBRE	RO	G. STEPAN	HU	A. SZASZ
I. DUDAS	HU	O. TATARU	RO	O. TATAR
F. DUDITA	RO	C. TOMOIAG	RO	E. TEUTAN
G. GOGU	FR	L. TUDOSE	RO	
M. GRANESCU	RO	I. TURCU	RO	
A. HALMAI	RO	I. VISA	RO	

SPONSORS:

- ROMANIAN MINISTRY OF EDUCATION AND RESEARCH
- CLUJ-NAPOCA, LOCAL COUNCIL
- ROMANIAN ASSOCIATION OF MECHANICAL TRANSMISSIONS (ROAMET)
- MECHATRONIC ROMANIAN ASOCIATION
- ROBOTIC ROMANIAN ASSOCIATION
- CN INDUSTRIAL GROUP INA WAELZLAGER SCHAEFFLER KG
- FESTO SRL ROMANIA
- ISEL AUTOMATION EITERFELD, GERMANY
- S.C. TIPOHOLDING S.A., ROMANIA
- LOCAL TRANSPORTATION COMPANY OF CLUJ-NAPOCA (RATUC) , ROMANIA
- S.C. TEHNOMAG S.A., ROMANIA

June 11, 2004

14:15 – 15:45

Room A 113

Mechanisms

Chairmen:

Nicolae Pandrea, Alexandru Rus

Paper	*Title and Authors*
M21	Analysis of Compliant Mechanisms Using Finite Element *Simona Noveanu, Vencel Csibi, Dan Noveanu*
M22	Din prioritatile de Patrimoniu ale Scolii de Mecanisme din Galati *Amedeu Oranescu, Silvia Bejenaru, Madalina Rus*
M23	About the Vibrations with Excitation Through Base of the Rigid Suspended by Deformed Cinematic Chains *Marina Pandrea, Sebastian Parlac*
M24	Mathematical Model for the Dynamical Study of the Planar Mechanisms with Clearances *Nicolae Pandrea, Nicolae–Doru Stănescu, Jan–Cristian Grigore*
M25	Numerical Calculus in Dynamics of the Planar Mechanisms with Flexible Elements *Alexandru Pele, Alexandru Rus, Călin-Florin Băban*

TRANSILVANIA UNIVERSITY OF BRASOV
FACULTY OF MECHANICAL ENGINEERING
DEPARTMENTS OF MECHANICS AND PRECISION MECHANICS

1ST INTERNATIONAL CONFERENCE

COMPUTATIONAL MECHANICS AND VIRTUAL ENGINEERING

FINAL PROGRAMME

COMEC 2005
20 – 22 OCTOBER

(THEORETICAL AND EXPERIMENTAL CONSIDERATIONS OVER BOUNDARY ELEMENT METHOD-BEM) PART II – EXPERIMENTAL RESULTS

21. Teodorescu H., Vlase S., Cotoros D. - EXPERIMENTAL METHOD TO DETERMINE RESIDUAL INTERNAL STRESSES IN TUBULAR COMPOSITE STRUCTURES
22. Ulea M., Goia I. - HEAT TRANSFER BETWEEN TWO WALLS
23. Vieru I., Stanescu N.D., Marinescu D. - STRESS STUDY OF THE VARIABLE STEP SPRING USED WITHIN THE REAR SUSPENSION
24. Vlase S. - SECOND ORDER EFFECTS IN THE MULTIBODY SYSTEMS WITH ELASTIC BARS

SECTION 5
(MP3)
BIOMECHANICS

CHAIRMEN:

- Prof.dr.eng. Ileana ROSCA
- Prof. Ph.D. Michel CONTE

1. Cismaru M., Braun B., Druga C. - MODELING THE HUMAN LOWER LIMBS
2. Cismaru M., Rosca I. - ANIMATING THE HUMAN LOWER LIMBS MODEL
3. Corneci M. - BIOMECHANICS OF THE HAND - PATHOLOGY AND RECOVER OF FUNCTIONALITY
4. Corneci M. - HAND SMALL JOINTS ARTHROPLASTY
5. Lache S. - STUDY UPON ADVANCED MODELS AND SYSTEMS FOR HUMAN BODY PROTECTION AGAINST VIBRATIONS AND OCCUPATIONAL DISEASES PREVENTION
6. Luculescu M. - COMPUTER AIDED DIAGNOSTIC SYSTEM FOR MACULAR DISEASES
7. Mândru D., Teutan E. - ANKLE REHABILITATION SYSTEM BASED ON TETHRAEDICAL MODULE
8. Noveanu S., Csibi V., Lobontiu N. - INFLUENCE OF THE FLEXURE HINGE GEOMETRY ON COMPLIANT MECHANISMS FUNCTIONING

ROMANIAN ACADEMY OF TECHNICAL SCIENCE

HONORARY PRESIDENT OF CONFERENCE: Prof.Dr.-Eng. Dr.H.C.mult. **Radu MUNTEANU**
Rector of the Technical University of Cluj-Napoca

CONFERENCE CHAIRMAN
Prof.Dr.-Eng. **Vistrian MATIES**

INTERNATIONAL SCIENTIFIC COMMITTEE

Prof. Dr.-Eng. **Vencel-Iosif CSIBI**

Gabriel ABBA	FR
Gyorgy ABRAHAM	HU
Nicolae ALEXANDRESCU	RO
Paun ANTONESCU	RO
Ioan ARDELEAN	RO
Radu BALAN	RO
Mircea Viorel BARA	RO
Guido BELFORTE	IT
Manuello A. BERTETTO	IT
Vasile BOLOS	RO
Cornel BRISAN	RO
Nicolae BURNETE	RO
Hendrik Van BRUSSEL	BE
Dorian COJOCARU	RO
Evert DIJKSMAN	B
Valer DOLGA	RO
Ioan DOROFTEI	RO
Barbu DRAGAN	RO
Florea DUDITA	RO
Adrian DUMITRIU	RO
Alessandro GASPARETTO	IT
Gheorghe GHEORGHE	RO
Grigore GOGU	FR
Attila HALMAI	HU
Manfred HILLER	DE
Kim HOLM	FI
Antal HUBA	HU
Mircea IVANESCU	RO
Karel JEZERNIK	SLO

CHAIRMEN

Peter KOPACEK	AUT
Jean Paul LALLEMAND	FR
Peter LORENZ	DE
Dan MANDRU	RO
Inocentiu MANIU	RO
Desideriu MAROS	RO
Vistrian MATIES	RO
Karl-Heinz MODLER	DE
Thomas NAGEL	DE
Sorin NICOLA	RO
Constantin NITU	RO
Mircea NITULESCU	RO
Dumitru OLARU	RO
Ciprian OLTEANU	RO
Nicolae ORLANDEA	USA
Doru PALADE	RO
Karoly PALFFY	RO
Philip OWENDE	IR
Dan PERJU	RO
Gheorghe PRISACARU	RO
Dieter SCHRAMM	DE
Dumitru SOAITA	RO
Viorel STOIAN	RO
Ioan VISA	RO
Mihai Olimpiu TATAR	RO
René THESKA	DE
Vasile TISAN	RO
Miomir VUKOBRATOVIC	SCG
Hartmut WITTE	DE

ORGANISING COMMITTEE

Prof. Dr.-Eng. **Ioan ARDELEAN**

Mircea Viorel BARA	RO
Radu BALAN	RO
Mihai Olimpiu TATAR	RO
Calin RUSU	RO
Emil TEUTAN	RO
Olimpiu HANCU	RO
Felix SZABO	RO
Simona NOVEANU	RO
Sorin BESOIU	RO
Sergiu STAN	RO
Ciprian LAPUSAN	RO
Ioan LUNGU	RO

SPONSORS:

- ROMANIAN MINISTRY OF EDUCATION AND RESEARCHE
- LOCAL COUNCIL OF CLUJ-NAPOCA
- SROMECA-MECHATRONIC ROMANIAN ASSOCIATION
- AROTMM-ROMANIAN ASSOCIATION FOR PROMOTION THE SCIENCE OF MACHINES AND MECHANISMS
- ROMANIAN ROBOTICS ASSOCIATION
- FESTO SRL ROMANIA
- ISEL AUTOMATION EITERFELD, GERMANY
- S.C. TIPOHOLDING S.A. ROMANIA
- S.C. TEHNOMAG S.A.ROMANIA
- REGIONAL DISTRICT FOR ROADS AND BRIDGES CLUJ
- DISTRICT HEATING COMPANY OF CLUJ-NAPOCA
- RATUC-LOCAL TRANSPORTATION COMPANY OF CLUJ-NAPOCA
- S.C. LECOM S.R.L.
- S.C. HBC ROMANIA S.R.L.
- S.C. PRODVINALCO S.A
- S.C. URSUS S.A.

June 8, 2006

16:45 – 18:30

Room A117 **Mechanical Structures and Elements for Precision Engineering and Mechatronics**

Chairmen:

Cristina Racocea, Voicu Mesaros – Anghel

Paper *Title and Authors*

1 Numerical Method To Solve Reynolds Equation In High Precision A New 3D Microfabrication Process HD JournalBearings
Dominic Antaluca, Dumitru Olaru, Daniel Nelias

2 The Loading Torque's Influence On The Nominal Contact Surface Area
Iosif Cărăbaş, Mesaros-Anghel Voicu

3 About Dissipative Process In Commanded And Automatic Gearbox
Andreea Dobra, Octavian Gligor

4 Design And Manufacturing Of Smart Textile Compliant Hinges
Werner Hufenbach, Karl-Heinz Modler, Olaf Täger, Niels Modler, Erwin-Christian Lovasz

5 Precision Issues In Compliant Mechanisms With Applications To Displacement Amplification Systems
Nicolae Lobontiu, Mihail Hardau, Mircea Gh. Munteanu, SimonaNoveanu

6 Rectangular Section Circlips / Retaining Rings Axial Load – Carrying Capacity Considerations
Voicu Mesaros – Anghel, Veronica Argesanu, Lucian Madaras, Alin Cuc

7 Contributions On External Factors Influence And The Builing/Construction Over The Control Devices Precision And Adjusting The Pressure In The Instalations For Technological Processes Automatization
Petre Munteanu, Dumitru Vlad, Sorin Munteanu, Eugeniu Condurateanu

8 Contributions To The Study Of The Magnetic Properties Of Rolling Bearing Elements
Cristina Racocea, Petru Corduneanu, Petru Leonte, Cezar Racocea

The 1st International Conference

ADVANCED ENGINEERING IN MECHANICAL SYSTEMS

ADEMS'07

We have the great pleasure to inform you at ADEMS'07 -The 1st International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", that takes place at 7th and 8th of June 2007. The advanced engineering in mechanical systems is an important requirement of our days. The aim of the conference was to present the recent research results in the mechanical engineering domains.

Topics of the Conference:

- *Applied Mechanics:* - *Sounds and Vibrations.*
- *Mechanical Systems:* - *Mechanisms*
  - *Machine Elements*
  - *Mechanical Transmissions*
  - *Product development of mechanical systems*
  - *Tribology*

TECHNICAL UNIVERSITY OF CLUJ-NAPOCA

ADEMS'07

7 - 8 JUNE 2007

RESEARCH CONCERNING THE GEOMETRY OF FLEXURE HINGES

Simona NOVEANU, Vencel CSIBI, Veroniu RADUTIU, Ion LUNGU

Abstract: *In this paper, the flexibility of compliant mechanisms currently used in the micro-mechanical structures is discussed. The angular range of motion of a flexure hinge is limited by the elastic range of material deformation in the joint, which is influenced by the geometry and the material properties of the joint. In order to experiment, the prototypes for flexure hinges with hyperbolic and parabolic profiles having the same overall dimensions, were developed. The analysis of geometrical shapes of flexure hinges is presented and experimental results are given and discussed. Modelling, simulation and optimization have been performed using finite element method. Finally, the authors' prototypes of several compliant mechanisms are presented.* ***Key words:*** *Compliant mechanisms, flexure hinge, geometrical shapes.*

1. INTRODUCTION

The compliant mechanisms are used to transfer or transform energy and motions across themselves as desired by the users [1]. The compliant mechanism does the same work except that their usability is also dependent upon flexibility of some members. The flexure hinge is a mechanical member that substitutes a conventional rotational joint in order to produce a limited angular motion about one axis [2]. Being monolithic with the links it connects, the flexure hinge is highly energy-efficient since it has zero friction and backlash. Backlash reduction due to a decreased number of joints increases the mechanism precision. Compliant mechanisms have a smaller number of movable joints, such as turning and sliding joints. The result is reduced wear and reduced need for lubrication. The monolithic construction also simplifies production, enabling low-cost fabrication. Compliant mechanisms can be miniaturized for use in simple microstructures, actuators and sensors.

2. THE FLEXURE HINGES

A monolithic flexure hinge is usually obtained by machining one or two cutouts in a blank material. In order to be functionally effective, a flexure hinge must be compliant in bending about one axis, to favor the intended rotation, but rigid about the cross axes to prohibit or minimize any other motion.

A flexure hinge is a mechanical member that substitutes a conventional rotational joint in order to produce a limited angular motion about one axis [3], as sketched in Fig. 1.

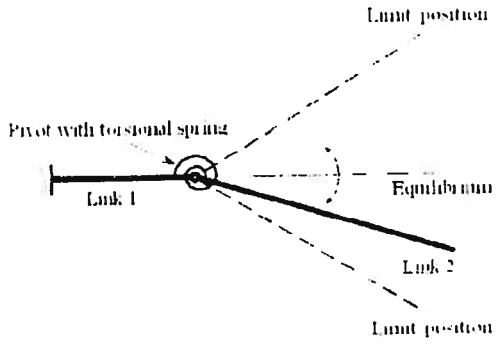


Fig. 1. Limited angular motion.

Flexures can be fabricated in several configurations, depending on the cross-section profile. The performances of flexure hinges depend on the geometrical shape. The flexure hinges can have various geometrical shapes: circular, corner-filleted, parabolic, hyperbolic, elliptical, inverse parabolic, secant or other as it's presented in Fig. 2.

June 12, 2008 **16.00 – 17.30** Room: **CAD**

Session: **MEMS. Micro and Nanotechnology. Tribo Contacts**

Chairmen: *Daniel Nélias, Dik Schipper*

1. Plasticity in 3d rolling contact

Daniel Nélias, Vincent Boucly
2. Static friction in metal – metal contacts

Radu Popovici, Loredana Deladi, Dik Schipper
3. Adhesion aspects of thin metallic films on polymer substrate

Georgeta Ionaşcu, Nicolae Alexandrescu, Lucian Bogatu, Elena Manea, Raluca Gavrilă, Ileana Cernica
4. Modelling, analysis and simulation of a compliant micro-positioning mechanism

Simona Noveanu, Ion Lungu, Vencel Csibi, Dan Mândru

5. Research regarding the fabrication of microstructures using electroplating

Constantin Anton Micu, Minela Minea, Lucian Bogatu, Georgeta Ionaşcu
6. Influence of macroscopic wear on the stribeck curve for line contacts

Influence of macroscopic wear on the Stribeck curve for line contacts

Ioan Crăcăoanu, Dik Schipper
7. New micro tribometers for sliding and rolling friction. experimental investigations

Dumitru Olaru, Ciprian Stamate, Gheorghe Prisăcaru

June 12, 2008 **16.00 – 17.30** Room: **Coun**

SCIENTIFIC BULLETIN OF
THE „POLITEHNICA" UNIVERSITY OF TIMISOARA, ROMANIA
Transactions on MECHANICS
BULETINUL ŞTIINŢIFIC AL
UNIVERSITAŢII "POLITEHNICA" DIN TIMIŞOARA, ROMANIA
SERIA MECANICA
Tom 53 (67 ISSN 1224 - 6077 Fasc. S1, 2008

THE FEM ANALYSIS OF COMPLIANT MECHANISMS

SIMONA NOVEANU, ION LUNGU, VENCEL CSIBI