

**Grilă de îndeplinire a condițiilor minime si obligatorii
pentru titlul de profesor universitar
Comisia CNATDCU NR. 17, Inginerie mecanică, mecatronică și robotică
OMNCS 6129 / 20.12.2016
Prof. dr. ing. Mihai BUGARU**

Condiții minime si obligatorii				
Domeniul de activitate		Indicatori	Realizat	Minim
Activitatea didactica/profesionala (A1)	A1.1	N1	8	2
		N1.1	4	1
		N1.3	3	1
	A1.2	N2	10	4
		N2.1	5	2
Activitatea de cercetare (A2)	A2.1+A2.3	P1+P2	17.481	10
		P1	16.431	6
	A2.2	N3	14	10
		N3.1	13	5
	A2.4+A2.5	N4	7	2
		N4.3	3	1
Recunoașterea impactului activității (A3)	A3.1	S1+S2	377.31	50
	A3.2	N5	48	10
	A3.3	C	33.825	25

26 Iulie 2022

Prof. dr. ing. Mihai BUGARU

**FIȘA DE VERIFICARE A ÎNDEPLINIRII CONDIȚIILOR MINIMALE ȘI OBLIGATORII,
COMISIA CNATDCU Nr. 17, INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ, OMNCS 6129 / 20.12.2016**

Prof. dr. ing. Mihai BUGARU

Departamentul de Mecanică

Facultatea de Ingineria Sistemelor Biotehnice

Universitatea "Politehnica" din București

	1. Activitatea didactica si profesionala - DID (A1)			
	A.1.1. Manuale suport de curs (conform fisei disciplinei de concurs)			
	Format tiparit/electronic[1] (min. 100 pag.)			
	Coordonator/prim autor N1.1			
1	Bugaru, M. , Enescu, N., <i>Mecanica</i> , Editura Printech, (CNCSIS,26), București, ISBN 973-652-128-1, pg. 316. 2000. https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-19413?func=full-set-set&set_number=019864&set_entry=000009&format=999	1		
2	Bugaru, M. , Enescu, N. <i>MECANICA cu Aplicații în Inginerie</i> , Editura PRINTECH (recunoscută CNCSIS,137), București, ISBN 973-718-325-8, 316 pg., 2005, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-16789?func=full-set-set&set_number=019864&set_entry=000010&format=999	1		
3	Bugaru M. , <i>Fundamentals of elasticity with applications in engineering</i> , BREN Publishing House(recunoscută CNCSIS,26), Bucharest, ISBN-973-648-312-5, 150 pg., 2004. https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-14541?func=full-set-set&set_number=019864&set_entry=000007&format=999	1		
4	Deciu, E., Bugaru, M. , Dragomirescu, Cr. <i>Vibrații neliniare cu aplicații în ingineria mecanică</i> , Editura Academiei Române (CNCSIS,46), București, ISBN 973-27-0911-1, 366 pg., 2002, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-13145?func=full-set-set&set_number=019864&set_entry=000002&format=999	1		
	N1.1	4	Obligatori	1
	Co-autor N1.2			
1	Simion, Fl. P., Bugaru, M. , ș.a., <i>Aplicații ale Mecanicii în Inginerie</i> , Editura PRINTECH(CNCSIS,137),, București, 302 pg., ISBN-973-98652-8-3, 1998.	1		
	N1.2	1		
	Format electronic disponibil pe platforma universitatii/departamentului (autor) N1.3			

1	Bugaru M., -MECANICA cu Aplicatii în inginerie (Curs si seminar in limba franceza), Suport de curs în format electronic. 300 pg., Ediția 2021,contine cursurile de Mecanique 2 (FILS Inginerie Mecanica an II), https://archive.curs.upb.ro/2021/course/view.php?id=874 ,Mecanique 3 (FILS Inginerie Mecanica anII), https://archive.curs.upb.ro/2021/course/view.php?id=894	1		
2	Bugaru M., Mecanica Sistemelor Multicorp (Curs si aplicatii),254 pg. , Editia 2021, https://archive.curs.upb.ro/2021/course/view.php?id=388	1		
3	Bugaru M., -Bazele Acusticii , 180 pg., Ediția 2021, contine BAZELE ACUSTICII 1 1, https://archive.curs.upb.ro/2021/course/view.php?id=309 . BAZELE ACUSTICII 2, https://archive.curs.upb.ro/2021/course/view.php?id=328	1		
		N1.3	3	Obligatori 1
		N1=N1.1+N1.2+N1.3	8	Obligatori 2
	A1.2. Material didactic/Dezvoltare laboratoare, aplicatii			
	Standuri laborator(construcție/modernizari) certificate de directorul de departament N2.1			
1	Laborator Mobil de Măsurători Vibroacustice: a. Sistem portabil multicanal de achiziție, prelucrare și analiză a vibrațiilor și semnalelor acustice cu softuri de prelucrare, procesare și post-procesare a datelor achiziționate pe 12 canale, rezultate în urma măsurării vibrațiilor și semnalelor acustice. Valoarea de achiziție: 331.415 Ron(approx. 92.000 Euro). Achiziționat din contract CEEX Modul 1 (31-06-05 nr. Intern ca responsabil contract A6761/2006). Utilizat la laboratoarele de MASTER (discipline: Bazele acusticii, Prelucrarea semnalelor, Proiectarea atenuatoarelor de zgomot și vibrații, Vibrații neliniare, Stabilitatea dinamică a mașinilor și structurilor) și la contracte, 2008, b. Analizor PULSE 3560D Bruel&Kjaer. Valoarea de achiziție: 70.000 Ron(cca. 20.000 Euro). Achiziționat din contract CEEX Modul 1 (31-06-05 nr. Intern ca responsabil contract A6761/2006). Utilizat la laboratoarele de MASTER (discipline: Bazele acusticii, Prelucrarea semnalelor, Proiectarea atenuatoarelor de zgomot și vibrații, Vibrații neliniare, Stabilitatea dinamică a mașinilor și structurilor) și la contracte, 2007, c. Vibrometru Laser Bruel&Kjaer OMETRON model 8329. Valoarea de achiziție: 200.000 Ron(cca. 55.000 Euro). Achiziționat din contract CEEX Modul 1 (31-06-05 nr. Intern ca responsabil contract A6761/2006). Utilizat la laboratoarele de MASTER (discipline: Bazele acusticii, Prelucrarea semnalelor, Proiectarea atenuatoarelor de zgomot și vibrații) și la contracte, 2008, d. 2 Microfoane cu preamplificator ¼” B&K 4939 tip free-field cu gama de masurare in frecvență 4 Hz-100 kHz, 2008,	1		
2	Lanț de măsurarea vibrațiilor fără contact HOTTINGER-Baldwin Messtechnik inductive (achiziționat pe baza GRANT ANSTI A.ad. 6001/2001 ca director tema B11), utilizat la laboratoarele de MASTER(discipline: Bazele acusticii, Prelucrarea semnalelor, Proiectarea atenuatoarelor de zgomot și vibrații) și la contracte, 2001	1		

3	Lanț de măsuratori acustice Bruel&Kjaer (achizitionat in 2001 din Contr. CNCSIS –Banca Mondiala nr.32/1998, tema 66) utilizat ulterior la: laboratoarele de MASTER (discipline: Bazele acusticii, Prelucrarea semnalelor) , GRANT nr. 5003/2001 pentru masurarea semnalelor acustice de scurta durata pentru amortizorule de zgomot ce echipeaza pistolul DRACULA MD 19,2001	1		
4	Stand pentru cercetarea atenuării zgomotului propagat printr-un tub cu derivații laterale , în cadrul Laboratorului de Acustică al Catedrei de Mecanică utilizat la laboratoarele de MASTER (discipline: Bazele acusticii, Prelucrarea semnalelor, Proiectarea atenuatoarelor de zgomot și vibrații), 1999	1		
5	Stand pentru cercetarea radiației acustice a plăcilor rectangulare , în cadrul Laboratorului de Acustică al Catedrei de Mecanică utilizat la laboratoarele de MASTER(discipline: Bazele acusticii, Prelucrarea semnalelor), 1999	1		
		N2.1	5	Obligativu 2
	Indrumar laborator/carte aplicatii format tiparit sau electronic (autor, co-autor) N2.2			
1	I. Stroe, N. Ene, M. Predoi, M. Bugaru , L. Voiculescu, A. Craifaleanu, ș.a., <i>Probleme de Vibrații pentru studenții din învățământul superior tehnic</i> , Editura PRINTECH (recunoscută CNCSIS,137), București, ISBN 973-652-641-0, 168 pg., 2002, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-06353?func=full-set-set&set_number=020535&set_entry=000004&format=999	1		
2	Stroe, I., Boiangiu, M., Caruntu, D., Bugaru, M. , ș.a., <i>Probleme de Mecanică Analitică</i> , Editura PRINTECH(CNCSIS,137), București, ISBN 973-652-169-9, 211 pg., 2000, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-17203?func=full-set-set&set_number=020658&set_entry=000013&format=999	1		
3	Stroe, I., Boiangiu, M., Caruntu, D., M. Bugaru , ș.a., <i>Probleme de Mecanică Analitică</i> , Tipografia UPB, București, 211 pg., 1997, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-21933?func=full-set-set&set_number=020658&set_entry=000012&format=999	1		
4	Șt. Staicu, Buracu V., Voiculescu, L., M. Bugaru , ș.a., <i>Probleme de Dinamică</i> . Tipografia UPB, București, 284 pg.. 1996, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-75491?func=direct&local_base=NOCIP&doc_number=000314338	1		
5	Șt. Staicu, Buracu V., Voiculescu, L., M. Bugaru , ș.a., <i>Probleme de Cinematică</i> , Tipografia UPB, București, 161 pg., 1995, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-02521?func=direct&local_base=NOCIP&doc_number=000314337	1		
		N2.2	5	
	Aplicatie informatica educationala N2.3			

		N2.3	0		
		N2=N2.1+N2.2+N2.3	10	Obligatoriu	4
	2. Activitatea de cercetare stiintifica, dezvoltare tehnologica si inovare -CDI (A2)				
	A.2.1. Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS)[2], unde n =nr.de autori si FI este factorul de impact [3]				
	Autor corespondent/prim autor P1.1				
	n<=3				
1	Bugaru, M., Vasile, O., A New Robust Method to Investigate Dynamic Instability of FTV for The Double Tripod Industrial Driveshafts in the PPRR, MDPI-Applied Sciences, e-ISSN 2076-3417, 2022, Vol. 12(12), 6182, https://doi.org/10.3390/app12126182, WOS: 000818408300001, DOI: 10.3390/ app 12 126182 IF=2,838 (2021)-Q2, https://www.webofscience.com/wos/woscc/full-record/WOS:000818408300001?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz: Calcul $2*(0.2+2.838)=6.076$		6.076		
2	Bugaru, M., Vasile, O., Modeling and Analysis of FBV Movements for Automotive Driveshafts in the PPR Region, MDPI-Applied Sciences, e-ISSN 2076-3417, 2022, Vol. 12(7), 3237, WOS: 000781051300001, DOI: 10.3390/app12073237, IF=2,838 (2021)-Q2, https://www.webofscience.com/wos/woscc/full-record/WOS:000781051300001?SID=EUW1ED0EABncEBOwBgpRp8kZOQOcJ, Calcul $2*(0.2+2.838)=6.076$		6.076		
3	Bugaru, M., Vasile, A., A Physically Consistent Model for Forced Torsional Vibrations of Automotive Driveshafts, MDPI-Computation, e-ISSN 2079-3197, 2022, Vol 10, 10(1), WOS: 000747629800001, DOI: 10.3390/computation10010010, https://doi.org/10.3390/computation10010010, https://www.webofscience.com/wos/woscc/full-record/WOS:000747629800001?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz Calcul $2*(0.2+0)=0.4$		0.4		
4	Bugaru, M., Vasile, A., Nonuniformity of Isometric Properties of Automotive Driveshafts, MDPI-Computation, e-ISSN 2079-3197, 2021, Vol 9, 9(12)-145, WOS: 000735922400001, DOI: 10.3390/computation9120145, https://doi.org/10.3390/computation9120145, https://www.webofscience.com/wos/woscc/full-record/WOS:000735922400001?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz Calcul $2*(0.2+0)=0.4$		0.4		
5	Bugaru, M., Vasile, O., Neagoe, M., Recent Developments of Noise Attenuation Using Acoustic Barriers for a Specific Edge Geometry, MDPI-Computation, e-ISSN 2079-3197, 2021, Vol 9, 9(12)-129, WOS: 000736262800001, DOI: 10.3390/computation9120129, https://doi.org/10.3390/computation9120129, https://www.webofscience.com/wos/woscc/full-record/WOS:000736262800001?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz, Calcul $2*(0.2+0)=0.4$		0.4		

6	Bugaru, M., Dynamic Behavior of Helical Gear-Pair Systems Non-Linear Parametrically Excited, Romanian Journal of Acoustics and Vibration, ISSN 1584-7284, 2005, Vol. 2, Issue 1, WOS: 000415166900003, pp. 13-26, https://www.webofscience.com/wos/woscc/full-record/WOS:000415166900003?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz , Calcul $2*(0.2+0)=0.4$	0.4		
		P1.1	13.752	
	n>=4 P1.2			
1		P1.2	0	
	Co-autor			
	n<=3 P1.3			
1	Vasile, O., Bugaru, M., A Nonlinear Wave Propagation Model, Romanian Journal of Acoustics and Vibration, ISSN 1584-7284, 2006, Vol. 3, Issue 1, WOS: 000415168000008, pp. 37-41, https://www.webofscience.com/wos/woscc/full-record/WOS:000415168000008?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz , Calcul $(0.2+0)=0.2$	0.2		
		P1.3	0.2	
	n>=4 P1.4			
1	Stanciu, S., Cirmaci, M., Berghea, F., Bugaru, M., Ciobica, L., Jurcut, C., Chereches, T., Blaj, S. A functional noninvasive method for early detection the damage cartilage joint using vibroacoustic and thermic spectrums, Annals of the Rheumatic Diseases, 2007, Vol. 66, 089, A34, ISSN 0003-4967, WOS: 000244337600105, IF=6,411(2007)-Q1, https://www.webofscience.com/wos/woscc/full-record/WOS:000244337600105?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz , Stanciu, S., Cirmaci, M., Berghea, F., Bugaru, M., Ciobica, L., Jurcut, C., Chereches, T., Blaj, S. A functional noninvasive method for early detection the damage cartilage joint using vibroacoustic and thermic spectrums, Annals of the Rheumatic Diseases, 2007, Vol. 66, 089, A34, ISSN 0003-4967, WOS: 000244337600105, IF=6,411(2007)-Q1, https://www.webofscience.com/wos/woscc/full-record/WOS:000244337600105?SID=EUW1ED0BAEcWoqNMuNgqJY88vtNwz , Calcul $3*(0.2+6.411)/8=2.479$	2.479		
		P1.4	2.479	
		P1=P1.1+P1.2+P1.3+P1.4	16.431	Obligatoriu 6
	A.2.2. Articole si publicatii stiintifice BDI [4] neincluse la A2.1			
	Autor corespondent/prim autor N3.1			
1	Bugaru M., Vasile, O., The Computation of Muffler Transmission Loss by Transfer Matrix Method, WSEAS Transactions on Mathematics, Issue 7, Vol. 6, pp. 763-770, ISSN 1109-2769, 2007, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0.42049095504&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=ad5f4e3c8b353a67f99317754b89466c&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=6&citeCnt=3&searchTerm=&featureToggles=FEATURE_NEW_DO_C_DETAILS_EXPORT:1	1		

2	<p>Bugaru M., Vasile, O., Non-linear dynamics of geared systems using the asymptotic method, Part 1: Computation of the amplitude, <i>WSEAS Transactions on Mathematics</i>, Issue 2, Vol. 6, pp. 271-275, ISSN 1109-2769, 2007, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33751570481&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=ad5f4e3c8b353a67f99317754b89466c&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=7&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
3	<p>Bugaru M., Vasile, O., Non-linear dynamic behavior of thin rectangular plates parametrically excited using the asymptotic method, Part 2: Computation of the phase angle, <i>WSEAS Transactions on Mathematics</i>, Issue 2, Vol. 6, pp. 276-280, ISSN 1109-2769, 2007, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33751564826&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=ad5f4e3c8b353a67f99317754b89466c&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=8&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
4	<p>Bugaru M., Chereches T., Trana E., Rotariu A., Non-linear dynamics of geared systems using the asymptotic method, Part 1: Computation of the amplitude, <i>WSEAS Transactions on Mathematics</i>, Issue 7, Vol. 5, pp. 943-949, ISSN 1109-2769, 2006, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33745494302&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=ad5f4e3c8b353a67f99317754b89466c&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=10&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
5	<p>Bugaru M., Chereches T., Trana E., Gheorghian S., Homotescu T. N., Theoretical model of the dynamic interaction between wagon train and continuous rail, <i>WSEAS Transactions on Mathematics</i>, Issue 4, Vol. 5, pp. 374-378, ISSN 1109-2769, 2006, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33744551735&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=12&citeCnt=2&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		

6	<p>Bugaru M., Chereches I., Trana E., Gheorghian S., Noise radiated by vibrating rectangular plate, <i>WSEAS Transactions on Mathematics</i>, Issue 4, Vol. 5, pp. 384-389, ISSN 1109-2769, 2006, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33744545244&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=13&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
7	<p>Bugaru M., Chereches I., Rotariu A., Gheorghian S., Cojocari V., The effect of geometric imperfections on the amplitude and the phase angle of the non-linear dynamic behavior of thin rectangular plates parametrically excited, <i>WSEAS Transactions on Mathematics</i>, Issue 4, Vol. 5, pp. 379-383, ISSN 1109-2769, 2006, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33744537555&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030cc&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=14&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
8	<p>Bugaru M., Trana E., Rotariu A., Ichimoaie Gh., Cartuta S.G., Banica M., The damping and the dynamic stability of thin plates parametrically excited, <i>WSEAS Transactions on Mathematics</i>, Issue 4, Vol. 5, pp. 405-408, ISSN 1109-2769, 2006, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-33744521851&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=15&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
9	<p>Bugaru, M., Vasile, O., Transfer matrix method for dual-chamber mufflers, <i>Proceedings of the 14th International Congress on Sound and Vibration</i>, ICSV 2007, Cairns, Australia, 2007, Vol. 5, pp. 4237-4243, ISBN 978-162748000-0, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84881464826&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=5&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
10	<p>Bugaru, M., Dale, R., Acoustic properties of sound barriers, <i>Proceedings of the 14th International Congress on Sound and Vibration</i>, ICSV 2007, Cairns, Australia, 2007, Vol. 5, pp. 4244-4250, ISBN 978-162748000-0, Scopus Indexed, https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84881402979&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=6&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		

11	<p>Bugaru, M., Enescu, N., Stanila, R., Vasile, O., Reflection and absorption of the acoustical barriers of finite length, <i>Proceedings of 12th International Congress on Sound and Vibration</i>, ICSV 2005, Lisbon, Portugal, 2005, Vol. 3, pp. 2143-2149, ISBN 978-162748149-6, Scopus Indexed,</p> <p>https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84881575176&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=17&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
12	<p>Bugaru, M., Non-stationary motion of helical geared systems with backlash due to combined impulsive and harmonic excitation, <i>Proceedings of 12th International Congress on Sound and Vibration</i>, ICSV 2005, Vol. 4, pp. 3703-3710, ISBN 978-162748149-6, Scopus Indexed,</p> <p>https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84881563348&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=18&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
13	<p>Bugaru M., Ion Cui., Nița S., Frunau M., The influence of the system parameters on the machinery performance induced vibrations, <i>Proceedings of International Congress on Sound and Vibration</i>, ICSV12-2005, Lisbon, Portugal, serving as member of the International Scientific Committee and Chair of The Session „Non-linear Acoustics & Vibration”, Vol. 5, pp. 4533 - 4541, 2005, ISBN 978-162748149-6, Scopus Indexed,</p> <p>https://www-scopus-com.am.e-nformation.ro/record/display.uri?cid=2-s2.0-84881599517&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=373fb2727e9c5d2309f70d2b89c030ee&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=16&citeCnt=0&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
		N3.1	13	Obligatoriu 5
	Co-autor N3.2			
1	<p>Stanciu, S., Cimaci, M., Berghea, F., Bugaru, M., Ciobica, I., Jurcut, C., Chereches, I., Blaj, S., vibroarthrography-a possible functional non-invasive method for early detection damaged cartilage joint, <i>Romanian Journal of Internal Medicine</i> , ISSN 1220-4749, Vol. 44, Issue 4, pp. 471-476, 2006, Scopus Indexed,</p> <p>https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-43049085246&origin=resultslist&sort=plf-f&src=s&st1=BUGARU&st2=Mihai&nlo=1&nlr=20&nls=count-f&sid=22aec44f04a46cdb3735caf49c476023&sot=anl&sdt=aut&sl=31&s=AU-ID%28%22Bugaru%2c+M.%22+13805674800%29&relpos=9&citeCnt=1&searchTerm=&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1</p>	1		
		N3.2	1	

		N3=N3.1+N3.2	14	Obligatoriu	10
	A.2.3. Brevete de inventii indexate [5]				
	Internationale indexate in Web of Science - Derwent Innovation				
1					
		P2.1			
	Nationale indexate OSIM P2.2				
1	Bugaru M., Zaharia M.C., Chereches T., Arsene M., Panou Stratificat Fonoizolant si Fonoabsorbant. Brevet nr. 122864/24-09-2008/30-03-2010, RO-BOPI 3/2010, din 30.03.2010, 122864 B1 (51) E01F 8/00 (2006.01); E04B 1/74 (2006.01);E04B 1/84 (2006.01), Calcul $2*3*(0.2+0.5)/4=1.05$		1.05		
		P2.2	1.05		
		P2=P2.1+P2.2	1.05		
		P1+P2	17.481	Obligatoriu	10
	A.2.4. Produse, tehnologii, platforme si servicii inovative (validate conform procedurilor specifice unitatilor de invatamant superior sau de cercetare)				
	Coordonator/prim autor N4.1				
1	2006-2008, nr. int. 31-06-05, Cercetari avansate privind reducerea nivelului poluarii sonore, in zonele locuite, generata de traficul feroviar si rutier, prin amplasarea de bariere acustice, CO : UPB, P1 : ATM, P2 : INCERC, P3 : S.C. Afico S.A. Valoare finantare UPB : 800.000 Ron = 120.000 (2006-dotare 70.000), 382.000 (2007-dotare 331.500), 298.000 (2008- dotare 120.000)		1		
		N4.1	1		
	Co-autor N4.2				
1	Tehnologie militara pentru generare infrasonete pentru combaterea actiunilor teroriste, realizata in baza Contract NATO-A7146/30.11.05/S12/09.11.05, Nr. 48/2005, nr. Int.31-05-03, 2005-2006. Metodă, sisteme și echipamente pe bază de infrasonete pentru combaterea actiunilor teroriste, CO: ATM, P1: UPB, P2 : ACTTM, 2005-2006,		1		
		N4.2	1		
	A.2.5. Monografii/carti de specialitate, format tiparit/electronic (min. 100 pag.)				
	Coordonator/prim autor N4.3				
1	Bugaru M., Plane structures with applications in engineering, BREN Publishing House(recunoscută CNCSIS,26), Bucharest, ISBN-973-648-320 -7, 185 pg., 2004, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-09832?func=full-set-set&set_number=019864&set_entry=000011&format=999		1		
2	Bugaru M., Curved structures with applications in engineering, BREN Publishing House(recunoscută CNCSIS,26), Bucharest. ISBN 973-648-322-3, 183 pg., 2004, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-10975?func=full-set-set&set_number=019864&set_entry=000006&format=999		1		

3	Bugaru M. , M.V.Predoi, Vibrațiile plăcilor plane rectangulare subțiri excitate parametric, Editura BREN(recunoscută CNCISIS,26), București, ISBN-973-9493-28-9, 143 pg., 1999, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-07616?func=full-set-set&set_number=019864&set_entry=000012&format=999	1		
		N4.3	3	Obligatoriu 1
	Co-autor N4.4			
1	Motomanca A., Bugaru M. , Ordine și Haos în Lagăre de alunecare, Editura BREN(recunoscută CNCISIS,26), București, 165 pg., ISBN-973-99604-0-5, 2000, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-03672?func=full-set-set&set_number=019808&set_entry=000001&format=999	1		
2	Predoi M.V., Bugaru M. , Motomanca A., Introducere în modelarea dinamicii plăcilor plane, Editura BREN(recunoscută CNCISIS,26), București, ISBN-973-9493-29-7, 132 pg., 1999, https://aleph.bibnat.ro/F/SMMJ7B359BQ2H7867P1R6NB69EAK9AGP8SKPNRIXUR1IHLSICD-06374?func=full-set-set&set_number=019850&set_entry=000008&format=999	1		
		N4.4	2	
		N4=N4.1+N4.2+N4.3+N4.4	7	Obligatoriu 2
3. Recunoasterea si impactul activitatii - RIA (A3)				
A.3.1. Atragere resurse financiare prin granturi/proiecte/contracte terti				
Director sau responsabil partener la grant/proiect castigat prin competitie nationala sau internationala S1				
1	Bugaru M. (Director proiect) , CEEX, Modul I, A6761/2006, 2006-2008, nr. int. 31-06-05, Cercetari avansate privind reducerea nivelului poluarii sonore, in zonele locuite, generata de traficul feroviar si rutier, prin amplasarea de bariere acustice, CO : UPB, P1 : ATM, P2 : INCERC, P3 : S.C. Afico S.A. Valoare finanțare UPB : 800.000 Ron, Ron=3.6 Euro, Val. Euro= 222.222 mii euro	222.22		
2	Bugaru M. (Responsabil proiect) , CEEX, Modul I, 118/2006, A5187, 2006-2008, nr. int. 31-06-03, Metodă inovativă de investigație noninvazivă a alterărilor morfofuncționale în patologia articulară pe baza spectrelor vibroacustice și termice. CO: ATM, P1:UPB, P2: Universitatea Carol Davila, P3: Spitalul Militar Central Buc., Valoare finanțare UPB : 270.000 , Ron=3.6 Euro, Val. Euro=75 mii euro	75		
3	Bugaru M.(Responsabil proiect) , CEEX, Modul I, X2C32/2006, 2006-2008, nr.int. 31-10-06, Sistem mecanic pentru cuplarea surselor de putere termică și electrică, destinat automobilelor ecologice cu propulsie hibridă, CO: Univ. Pitesti, P1: UPB, P2: Univ. Din Brașov, Valoare finanțare UPB : 145.000 Ron, Ron=3.6 Euro, Val. Euro=40.278 mii euro	40.28		
4	Bugaru M.(Responsabil UPB) , CEEX, Modul III, C251/2006, 2006-2008, nr.int. 31-06-06, Pomovarea cercetării interdisciplinare de excelență în domeniul sistemelor multicorp și racordarea la programul FP7, CO: Univ. Pitesti, P1: UPB, P2: Univ. Din Brașov, Valoare finanțare UPB : 15.500 Ron = 15.500 (2007), Ron=3.6 Euro, Val. Euro=4.306mii euro	4.31		

5	Bugaru M. (Responsabil UPB) , NATO-A7146/30.11.05/S12/09.11.05, Nr. 48/2005, nr. Int.31-05-03, 2005-2006, Metodă, sisteme și echipamente pe bază de infrasunete pentru combaterea acțiunilor teroriste, CO: ATM, PI: UPB, P2 : ACTTM, 2005-2006, Valoare finanțare UPB : 25.500 EURO	25.5		
	S1	367.31		
	Membru in echipa la grant/proiect castigat prin competitie nationala sau internationala, proiecte/contracte terti			
1	Enescu N., Bugaru M.(coautor) , s.a., -Controlul poluării vibro-acustice a mediului ambient, Grant CNSCU-Banca Mondială, nr. 36333/19.07.1999-43, 1999-2001, Valoare finanțare UPB : 10.000 USD	10		
	S2	10		
	S1+S2	377.31	Obligatoriu	50
	A.3.2. Prezentarea/Diseminarea rezultatelor: prezenta la manifestari stiintifice in calitate de autor/co-autor de lucrari, profesor invitat			
	N5			
	Congrese/conferinte/workshopuri internationale, profesor invitat la universitati/institute din strainatate			
1	Bugaru M. , Vasile O., <i>Internal resonances for clamped-clamped beams</i> , Simpozionul Internațional DISIPAREA ENERGIEI, Bucharest, November 2005, pg. 82-87, ISBN973-8132-53-3.	1		
2	Enescu N., Bugaru M. , <i>Atenuatoare acustice</i> , Simpozionul Internațional DISIPAREA ENERGIEI, Bucharest, November 2005, pg. 27-32, ISBN973-8132-53-3.	1		
3	Bugaru M. , Vasile O., <i>A method for the vibration analysis of built-up structures, partI</i> , The 9 th International Congress on AUTOMOTIVE, CAR2005, Pitești, November 2005, 15 pg., ISBN073-690-450-4.	1		
4	Bugaru M. , Vasile O., <i>A method for the vibration analysis of built-up structures, partII</i> , The 9 th International Congress on AUTOMOTIVE, CAR2005, Pitești, November 2005, 8 pg., ISBN073-690-450-4.	1		
5	Bugaru M. , Enescu, <i>Dynamic behavior of bi-mass vibratory machines</i> . Proceedings of The IC-EPSMSO, serving as member of the International Scientific Committee, Athens, Greece, 6 pg., 2005	1		
6	Enescu. N., Bugaru M. , <i>Specific noise attenuation with acoustic barriers</i> , Proceedings of The IC-EPSMSO, serving as member of the International Scientific Committee, Athens, Greece, 6 pg., 2005.	1		
7	Bugaru, M. , Experimental researches concerning the relative displacements of helical gear-pair wheels, Proceedings of The Second International Conference on Sound & Vibration of RSA, Bucharest, pg.209-214, ISBN 973-8132-48-7, 2004.	1		
8	Bugaru, M. , Experimental researches concerning the mesh damping of helical geared systems, Proceedings of The Second International Conference on Sound & Vibration of RSA, Bucharest, pg. 203-208, ISBN 973-8132-48-7,2004.	1		
9	Bugaru, M. , Experimental researches concerning the mesh stiffness of helical geared systems, Proceedings of The Second International Conference on Sound & Vibration of RSA, Bucharest. pg. 197-202, ISBN 973-8132-48-7, 2004.	1		
10	Bugaru, M. , Computation of amplitude and phase angle of helical geared systems with backlash using asymptotic method, Proceedings of The IC-SCCE, Athens, Greece, on CD, 13 pages, presented at invited session Engineering I, where I was member in The International Scientific Committee of The Congress and chairman of the Acoustics Season, 8-10 September 2004	1		
11	Bugaru, M. , Chaotic vibrations of helical geared systems, Proceedings of The IC-SCCE, Athens, Greece, on CD, 8 pages, presented at invited session Engineering I, where I was member in The International Scientific Committee of The Congress and chairman of the Acoustics Season, 8-10 Septembe2004	1		

12	Bugaru, M. , Indicators of tooth flanks pitting failure on gearbox by vibration monitoring, Proceedings of The 7th ESFA International Conference, Bucharest, pp. 79-86, Vol. 2, ISBN 973-8449-11-1, 8-9 May 2003.	1		
13	A. Motomanca, C. Cotet, M. Bugaru , N. Enescu, Order and chaos in machine-tools bearings, Proceedings of The 4th GRACM International Congress on Computational Mechanics, Patra, Greece, on CD, 6 pages, presented at invited session Non-linear vibrations of structures, where I was session's organizer and member in The International Scientific Committee of The Congress. 27-29 June 2002	1		
14	M. Bugaru , C. Cotet, A. Motomanca, N. Enescu, Recent developments concerning the stability of dynamic response of the geared systems, Proceedings of The 4th GRACM International Congress on Computational Mechanics, Patra, Greece, on CD, 6 pages, presented at invited session Non-linear vibrations of structures, where I was session's organizer and member in The International Scientific Committee of The Congress, 27-29 June 2002	1		
15	A. Motomanca, M. Bugaru , M.V. Predoi, Upon chaotic behaviour of plane mechanism with low level action power, Proceedings of The Eight IFTOMM, Bucharest, pg. 189-194, 28 August-01 September 2001.	1		
16	M. Bugaru , M.V. Predoi, A. Motomanca, Non-linear parametric vibrations of the cam distribution systems of poly-dyn type, Proceedings of The Eight IFTOMM, Bucharest, pg. 103-108, 28 August-01 September 2001.	1		
17	M.V. Predoi, A. Motomanca, M. Bugaru , Dynamics of cables for lifting mechanisms, Proceedings of The Eight IFTOMM, Bucharest, pg. 267-272, 28 August-01 September 2001.	1		
18	M.V. Predoi, N. Enescu, M. Bugaru , A. Motomanca, Sound transmission control for clamped plates, at EURONOISE 2001, in Proceedings on CD, Patra, Greece, presented at invited session Vibroacoustics of plates I, where I was chairmen, organizer, Co-chairman of The Congress and member in The International Scientific Committee, 6 pp., January 2001	1		
19	M.V. Predoi, N. Enescu, I. Magheți, M. Bugaru , A study of vibration induced noise for a plate, at EURONOISE 2001, in Proceedings on CD, Patra, Greece, presented at session Vibroacoustics of plates II, where I was chairmen, organizer, Co-chairman of The Congress and member in The International Scientific Committee, 6 pp., January 2001	1		
20	A. Motomanca, M. Ivan, M. Bugaru , M.V. Predoi, Experimental researches concerning the noise propagation using the correlation method, at EURONOISE 2001, in Proceedings on CD, Patra, Greece, presented at invited session Vibroacoustics of plates I, where I was chairmen, organizer, Co-chairman of The Congress and member in The International Scientific Committee, 16 pp., January 2001	1		
21	M. Bugaru , N. Enescu, I. Magheți, M.V. Predoi, Experimental researches concerning the vibro-acoustics of thin rectangular plates parametrically excited, invited paper at EURONOISE 2001, in Proceedings on CD, Patra, Greece, presented at invited session Vibroacoustics of plates I, where I was chairmen, organizer, Co-chairman of The Congress and member in The International Scientific Committee, 18 pp., January 2001	1		
22	Bugaru, M. , Motomanca, A., The effect of structural coincidences on the acoustic fields radiated from a ribbed thin plate, Proceedings of The 8 International Conference of Motor Vehicles, Pitesti, ISBN 973-8212-00-4, pp. 99-108, November 2000.	1		
23	Bugaru, M. , Motomanca, A., Gheorghiu, H., Parametric vibrations of chains transmission, Proceedings of The 8 International Conference of Motor Vehicles, Pitesti, ISBN 973-8212-00-4, pp. 31-38, November 2000,.	1		
24	Motomanca, A., M. Bugaru , Routes to chaos in ball bearings, Proceedings of The 8 International Conference of Motor Vehicles, Pitesti, ISBN 973-8212-00-4, pp. 39-44, November 2000.	1		
25	Motomanca, A., M. Bugaru, Gheorghiu, H., Model of flowing fluid having a variable dynamic viscosity coefficient. Proceedings of The 8 International Conference of Motor Vehicles, Pitesti, ISBN 973-8212-00-4, pp. 223-227, November 2000.	1		

26	Motomanca, A., M. Bugaru , Gheorghiu, H., Considerations concernant la dynamique des paliers a support flexibles, Proceedings of the International Annual Symposium of the Institute of Solid Mechanics SISOM 2000, Bucharest, ISSN 1223-7140, pp. 203-208, October 2000.	1		
27	M. Bugaru , I. Magheti, N. Enescu, M.V.Predoi, Noise radiated by thin rectangular plates subjected to inplane loads, Proceedings of The 29th International Congress on Noise Control Engineering, Nice, France, pg. 2627-2630, 27-31 August 2000	1		
28	M.V.Predoi, I. Magheti, N.Enescu, M. Bugaru , Noise radiated by a transversely actuated rectangular plate, Proceedings of The 29th International Congress on Noise Control Engineering, Nice, France, pg. 2623-2626, 27-31 August 2000	1		
29	. N. Enescu. I. Magheti, M. Bugaru , M.V. Predoi, Acoustical tube with multiple side branches, Proceedings of The 7th International Congress on Sound and Vibration, Garmisch- Partenkirchen, Germany, pg. 1773-1778, 4-7 July 2000	1		
30	A. Motomanca, M. Bugaru , Chaotic behavior of thin rectangular plates, Proceedings of The 7th International Congress on Sound and Vibration, Garmisch- Partenkirchen, Germany, pg. 2915-2922, 4-7 July 2000	1		
31	. M.V.Predoi , M. Bugaru , Complementary bending moments influence on the natural frequencies of rotating plates, Proceedings of The 7th International Congress on Sound and Vibration, Garmisch- Partenkirchen, Germany, pg. 963-968, 4-7 July 2000	1		
32	Motomanca, A., Bugaru, M. , A combination stress-pressure champ on the chaotic behaviour of the hydrostatic bearings, Proceedings of The 4th International Colloquium on Computation of Shell & Spatial Structures, Chania- Crete, Greece, pg. 294-299, 4-7 June 2000	1		
33	M. Bugaru , A. Motomanca, Non-linear vibrations of clamped circular plates due to an axisymmetric pulse excitation, Proceedings of The 4th International Colloquium on Computation of Shell & Spatial Structures, Chania- Crete, Greece, pg. 278-283, 4-7 June 2000	1		
34	M.V. Predoi, V. Ceaușu, M. Bugaru , A. Motomanca, Vibrations of circular plates clamped at center and free on the contour, Proceedings of the International Annual Symposium of the Institute of Solid Mechanics SISOM '99, Bucharest, ISSN 1223-7140, pp. 107-114, november 1999	1		
35	A. Motomanca, Cr. Dragomirescu, M.V.Predoi, M. Bugaru , New non-linear model on hydrostatic bearings. The study of the instability zones, Proceedings of ECCM'99, Munich, Germany, 1999, on CD support, 18 pg., 1999.	1		
36	M.V. Predoi, M. Bugaru , A. Motomanca, Cr. Dragomirescu, Parametric resonance of rectangular plates, Proceedings of ECCM'99, Munich, Germany, on CD support, 6 pg., 1999.	1		
37	Cr. Dragomirescu, M. Bugaru , A. Motomanca, M.V. Predoi, The using of Lyapunov's exponents method in the stability study of the dynamic behaviour of a circular cross-section slender bar, Proceedings of The 6th International Congress on Sound and Vibration, Lyngby, Denmark, pg. 3245-3252, ISBN 87-987457-9-4, 1999	1		
38	A. Motomanca, M. Bugaru , Cr. Dragomirescu, M.V. Predoi, A non-linear model for a hydrostatic bearing. Chaotic behaviour found in two different region of rotation, Proceedings of The 6th International Congress on Sound and Vibration, Lyngby, Denmark, pg. 3245-3252, ISBN 87-987457-9-4, 1999	1		
39	M.V. Predoi, M. Bugaru , A. Motomanca, Cr. Dragomirescu, Large deflection vibrations for rectangular plates in non-inertial frames, Proceedings of The 6th International Congress on Sound and Vibration, Lyngby, Denmark, pg. 3239-3244, ISBN 87-987457-9-4, 1999	1		
40	N. Enescu, M. Bugaru , N. Magheti, M.V.Predoi. Acoustical characteristics of tubes with lateral derivations, Proceedings of The 6th International Congress on Sound and Vibration, Lyngby, Denmark, pg. 2525-2530, ISBN 87-987457-9-4, 1999	1		

41	N. Enescu, M. Bugaru , M.V.Predoi, Acoustic emission model for a thin circular plate with large deflections, Proceedings of FORUM ACUSTICUM and 137th Meeting of the Acoustical Society of America, Berlin, Germany, on CD support, 4 pg., 1999	1		
42	Șt. Staicu, M. Bugaru , N. Pavelescu, Collisions involvements in the robot arm kinematics (2X3R), Proceedings of The 15th International Congress of the American-Romanian Academy, Montreal, Canada, pg. 323-328, 1990	1		
43	P. Antonescu, M. Bugaru , Sinteza mecanismului cu camă rotativă și tchet plat-balansier, Proceedings of The 5th IFTOMM-SYROM, Bucharest, pg. 37-46, 1989.	1		
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