

Comisia de analiză a dosarelor de concurs a Facultății Construcții de Mașini

AVIZ ÎNDEPLINIRE STANDARDE MINIMALE

Încheiat astăzi, **24.06.2021**, în cadrul ședinței desfășurată în mediul virtual pe platforma MS TEAMS cu membrii Comisiei de analiză a dosarelor de concurs a Facultății Construcții de Mașini.

În conformitate cu **Metodologia de concurs** în vigoare în cadrul UTCN, art. 12 alin. (2) lit. i), art. 12 alin. (3) lit. g) și art. 35 alin. (7), Comisia de analiză a dosarelor de concurs de la nivelul Facultății Construcții de a verificat informațiile cuprinse în fișa de verificare depusă de **Dr.ing. OVIDIU SORIN BUIGA** pentru postul **Conferențiar poz. 15** din Statul de funcții al Departamentului Ingineria Sistemelor Mecanice. Comisia de analiză apreciază că acesta **îndeplinește** cerințele cuprinse în fișa de verificare.

Comisia de verificare

Acad. Prof.Dr.Ing. Dorel BANABIC

Prof.Dr.Ing Sorin POPESCU

Prof. Dr.Ing. Corina BÎRLEANU

FISA STANDARDE MINIMALE CONCURS CONFERENȚIAR - DOMENIUL: INGINERIE MECANICA

Candidat:

Ș.I. dr. ing. BUIGA Ovidiu Sorin

Specificatie	Domeniul activitatilor	Indicator	Punctaj obținut de către candidat	Punctaj minim grila	Procent realizat în raport cu punctajul minim pt conf. [%]	Rezoluție indicatori
Activitatea didactica/profesionala	A.1.1	N1	2.00	2.00	100.00	indicator indeplinit
		N1.1	2.00	0.00		indicator indeplinit
		N1.3	1.00	1.00	100.00	indicator indeplinit
	A.1.2	N2	7.00	3.00	233.33	indicator indeplinit
		N.2.1	5.00	1.00	500.00	indicator indeplinit
Activitatea de cercetare	A2.1+A2.3	P1+P2	23.38	5.00	467.56	indicator indeplinit
		P1	7.83	3.00	261.13	indicator indeplinit
	A2.2	N3	9.00	8.00	112.50	indicator indeplinit
		N3.1	4.00	3.00	133.33	indicator indeplinit
	A2.4+A2.5	N4	2.00	1.00	200.00	indicator indeplinit
		N43	1.00	0.00		indicator indeplinit
Recunoasterea impactului activitatii	A3.1	S1+S2	14.99	10.00	149.90	indicator indeplinit
	A3.2	N5	9.00	5.00	180.00	indicator indeplinit
	A3.3	C	106.77	10.00	1067.74	indicator indeplinit
					100.00	indicator indeplinit

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	Buiga Ovidiu	1	Organe de masini. Evaluare. Teste grila	U.T.PRESS	2021	978-606-737-497-1	1.00
2	Buiga Ovidiu	1	Organe de masini 1. Suport de curs (Format electronic: https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/517-6.pdf).	U.T.PRESS	2021	978-606-737-517-6	1.00

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

coautor

Format tiparit/electronic (minim 100 pagini)

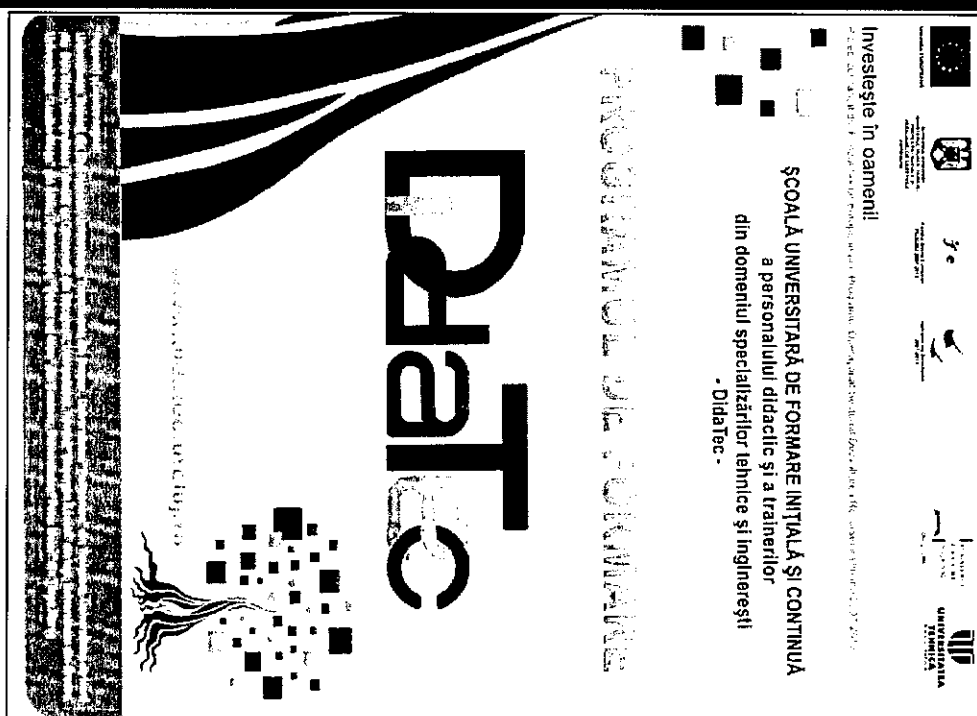
Colecția		Format digital electronic (minimum 100 pagini)					
Nr. crt.	Autorii	Numar autori	Titlul	Editura	Anul publicarii	ISBN	punctaj

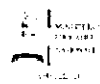
0.00

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

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

Nr. crt.	Autori	Adresa de site	Anul postarii	nr. Autori	punctaj
1	Buiga Ovidiu	http://o365.utcluj.cdidatec.ro/Home/Licensing	2013	1	1.00





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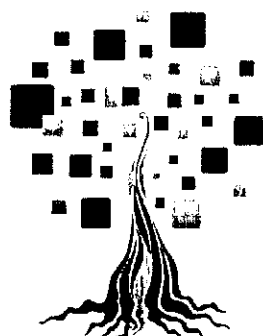
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N2.1 Standuri de laborator (construcție/modernizare) certificate de directorul de departament

Nr. crt.	Denumire stand/an construcție sau modernizare	Anul construcție/ modernizare	Punctaj individual
1	Stand de prezentare pentru tehnică liniară	2021	1.00
2	Machetă pentru determinarea experimentală a coeficienților de frecare la asamblările cu șuruburi	2019	1.00
3	Machetă pentru restabilirea parametrilor dimensionali ai angrenajelor cu roți dințate cilindrice cu dinți drepți	2019	1.00
4	Machetă pentru restabilirea parametrilor dimensionali ai angrenajelor cu roți dințate cilindrice cu dinți înclinați	2019	1.00
5	Stand pentru determinarea încărcării statice a unei transmisii prin curele trapezoidale	2018	1.00

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	Birleanu, C., Pustan, M., Haragăș, S., Buiga, O., Popa, C., Crișan, H., Crăciun, Ș., Șerdean F.	8	Organe de mașini și mecanisme. Lucrări de laborator	2021	978-606-737-503-9	1.00
2	Haragăș, S., Pop, D., Buiga, O.	3	Transmisii cu șuruburi. Calcul și proiectare	2013	978-606-595-024-5	1.00

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

Nr. crt.	Nume autori	Numar autori	Titlul lucrării	Denumire Jurnal / ISSN	Volum/Numar	Anul publicării	nr. pagini (de la pana la)	Punctaj individual
1	Haragăș, S., Pop, D., Cristea, F., Buiga, O.	4	Experimental research regarding the tribological properties of a hydraulic oil	IOP Conference Series: Materials Science and Engineering / ISSN: 1757-8981	724	2019	1 6	1.00
1	Buiga, O.	1	A 2K-h single-row planetary gearbox optimal design with Genetic Algorithms	INTERDISCIPLINARY RESEARCH IN ENGINEERING: STEPS TOWARDS BREAKTHROUGH INNOVATION FOR SUSTAINABLE DEVELOPMENT, Edited by: Vlaicu, A., Brad, S. Book Series: Advanced Engineering Forum, Volume: 8-9 Pages: 389-396, Conference: Conference on Interdisciplinary Research in Engineering Steps towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), WOS:000323184000044, DOI: 10.4028/www.scientific.net/AEF.8-9.389, ISBN:978-3-03785-785-4, ISSN: 2234-9898.	8(9)	2013	389-396	1.00
2	Buiga, O., Haragăș, S.	2	Single-row planetary gearbox gearings optimization using genetic algorithms	Mechanisms and Machine Science 13/ ISSN 2211-0984	12	2013	447-456	1.00

3	Buiga, O., Popa, C.O.	2	Mono-objective optimization of a helical gear set surface teeth contact temperature using genetic algorithms	International Review of Mechanical Engineering / ISSN:1970-8734	5(7)	2011	1219-1225	1.00
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Articole si publicatii BDI (neincluse in A2.1)
co-autor

Nr. crt.	Nume autori	Numar autori	Titlul lucrării	Denumire Jurnal / ISSN	Volum / Numar	Anul publicarii	Nr. pagini (de la .. pana la:)	Punctaj Individual
1	Haragăș, S., Buiga, O.	2	Practical aspects concerning the demolding moment calculation for injected parts with external thread	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING / ISSN: 1221-5872	63(2)	2020	123-128	1.00
3	Manea, A., Băciuț, G., Băciuț, M., Pop, D. Comșa, D.S., Buiga, O., Trombițaș, V. Coloși, H., Mitre, I., Bordea, R., Manole, M., Lenghel, M., Bran, S., Onișor, F.	14	New Dental Implant with 3D Shock Absorbers and Tooth-Like Mobility—Prototype Development, Finite Element Analysis (FEA), and Mechanical Testing	Materials / ISSN: 1996-1944	12(20)	2019	34-44	1.00
4	Haragăș, S., Negrean, I., Buiga, O.	3	Contributions to the demolding moment calculation for injected parts with thread	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING / ISSN: 1221-5872	60(1)	2017	45-48	1.00
5	Haragăș, S., Negrean, I., Pop, D., Buiga, O., Rusu, F.	5	Demolding moment calculation for injected parts with internal trapezoidal thread	Key Engineering Materials / ISSN: 1013-9826	699	2016	104-109	1.00
6	Haragăș, S., Buiga, O., Trif, A.	3	Design concepts of ejection systems for injected large dimensions parts	Academic Journal of Manufacturing Engineering / ISSN: 1583-7904	12(3)	2014	100-103	1.00

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

Nr. crt.	Autor corespondent= 2; Prim autor=1	Nume autori	Titlul lucrării	Denumire Jurnal /ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la - până la)	Factor de impact în anul publicării	Punctaj individual pt. n max 3
1	1	Buiga, O.	3 Stage helical speed reducer partial gear ratios	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE / ISSN: 1454-9069	20(2)	2019	165-163	1.294	2.99
2	1	Buiga, O., Tudose, L.	Optimal mass minimization design of a two-stage coaxial helical speed reducer with Genetic Algorithms	ADVANCES IN ENGINEERING SOFTWARE / ISSN: 0965-9978	68	2014	25-32	3.884	8.17
3	1	Buiga, O., Popa, C.O.	Optimal mass design of a single-stage helical gear unit with genetic algorithms	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE / ISSN: 1454-9069	13(3)	2012	243-250	1.294	2.99

* Trebuie sa fim atenti sa nu raportam lucrari ca fiind publicate intr-un jurnal cu IF (de exemplu, din Elsevier) cand, de fapt, ele sunt publicate intr-un jurnal cu un titlu asemanator sau aproape identic cu cel din Elsevier, dar care are cu totul alt statut (de exemplu e doar indexat, nu si cotate, deci nu are IF)
 ** Nu se iau in considerare decat lucrarile in extenso (cu cel putin 6 pagini, prin exceptie putand avea si minim 4 pagini), in niciun caz abstracte, indiferent ca au aparut intr-un Book of abstracts, sau intr-un jurnal.

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- A. 1 IF2019--1.294, IF2020--
- A. 2 IF2019--3.884, IF2014--1.402, IF2020--
- A. 3 IF2019--1.294, IF2012--0.537, IF2020--

P1.2 Articole și publicații științifice indexate Web of Science - Thomson Reuters *, **
Autor corespondent/Prim autor mai mult de 4 autori inclusiv

Nr. crt.	Autor corespondent = 2, Prim autor = 1	Numar autori	Nume autori	Titlul lucrării	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la pana la:)	Factor de impact in anul publicării	Punctaj individual
1	2	4	Haragăș, S., Buiga, O., Popa, C.O., Rusu, F.	Demolding Moment Calculation for Injected Parts with Internal Saw Thread Increasing Injection	MATERIALE PLASTICE / ISSN: 0025-5289	53(3)	2016	378-381	1.517	2.58
2	2	4	Tudose, L., Haragăș, S., Buiga, O., Tudose, C.,	Molding Speed through Cooling System Geometry Optimization	MATERIALE PLASTICE / ISSN: 0025-5289	51(3)	2014	246-252	1.517	2.58

* FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării.

A. 1 IF2019--1.517, IF2016--0.774, IF2020--

A. 2 IF2019--1.517, IF2014--0.824, IF2020--

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

Nr. crt.	Nume autori	Titlul lucrării	Denumire Jurnal/ ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la pana la:)	Factor de impact in anul publicării	Numar autori	Punctaj individual
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P1.4

Articole și publicații științifice indexate Web of Science - Thomson Reuters
co-autor mai mult de 3 autori

Nr. crt.	Nume autori	Titlul lucrării	Denumire Jurnal/ISSN	Volum/ Numar	Anul publicării	nr. pagini (de la pana la)	Factor de Impact in anul publicării	Numar autori	Punctaj individual
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1	Tudose, L., Buiga, O., Ștefanache, C., Sobester, A.	Automated optimal design of a two-stage helical gear reducer	STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION / ISSN: 1615-147X	43(3)	2010	429-435	3.377	4	2.68
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* FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării.

A. 1 IF2010--1.528, IF2019--3.377, IF2020--

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
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P2.1>4 Brevete internationale indexate in Web of Science-Derwent Innovation
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Nr. crt.	Autori	Titlul brevetului/numar	Anul obtinerii brevetului	Numar autori	Punctaj individual
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P2.2<4 Brevete indexate OSIM
Prim autor/autor corespondent *maxim 3 autori*

Nr. crt.	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
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P2.2>4 Brevete indexate OSIM
Prim autor/autor corespondent *minim 4 autori inclusiv*

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

P2.2.1<4 Brevete internationale indexate in Web of Science-Derwent Innovation
Co-autor maxim 3 autori

Nr. crt.	Autori	Titlul brevetului	Anul aparitiei	Numar autori	Punctaj individual
					0,00

P2.2.1>4 Brevete internationale indexate in Web of Science-Derwent Innovation
Co-autor *minim 4 autori inclusiv*

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

P2.2.2<4

Brevete indexate OSIM; co-autor;

maxim 3 autori

Nr. crt.	Autori	Titlul brevetului	Anul apariției	Numar autori	Punctaj individual
1	Pop, D., Haragăș, S., Buiga, O.	Dispozitiv și metodă pentru montarea ecliselor lanțurilor cu role, Brevet nr. 129763, BOPI - Secțiunea Invenții nr. 2 / 2019, din data de 28.02.2019	2019	3	0.70
2	Pop, D., Haragăș, S., Buiga, O.	Dispozitiv și metodă pentru depresarea bolțurilor lanțurilor cu role, Brevet nr. 129764, BOPI - Secțiunea Invenții nr. 1 / 2019, din data de 30.01.2019	2019	3	0.70

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

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

prim autor

Nr. crt.	Autori	Titlul	Editura	Anul editării	ISBN	Nr. Pagini	Punctaj individual
1	Buiga Ovidiu	Organe de mașini. Proiectarea optimă a transmisiilor mecanice cu angrenaje	Risoprint	2018	978-973-53-2278-6	217	1.00

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

co - autor

Nr. crt.	Autorii	Titlul	Editura	Anul editării	ISBN	Nr. Pagini	Punctaj Individual
1	Tudose L., Haragăș S., Jucan D., Stănescu C. Buiga O., Ștefanache C.	Proiectarea optimă cu algoritmi evolutivi a produselor	Napoca Star	2010	978-973-647-726-3	279	1.00

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

Nr. crt.	Tipul activității: 1: workshop 2: conferință/congres 3: profesor invitat	Denumire Congress workshop/Institua unde a fost invitat	Anul /perioada (pt. prof. invitat)	Titlul lucrării susținute în calitate de autor sau co-autor/ Prelegeri expuse pt. profesor invitat	link email/alte modalități de justificare a activității	Punctaj realizat
1	1	Conference on Interdisciplinary Research in Engineering Steps towards Breakthrough Innovation for Sustainable Development (INTERIN 2013) Location: Cluj-Napoca, ROMANIA	2013	A 2K-h single-row planetary gearbox optimal design with Genetic Algorithms	Anexat - programul conferinței, certificat de participare;	1.00
2	1	The 4th International Conference „Advanced Engineering in Mechanical Systems”, ADEMS’13	2013	Multi-stations short pitch precision roller chain breaker and mounting tools	Anexat - programul conferinței;	1.00
3	1	The 36th International Conference ICMSAV”, 25-26 Octombrie 2012, Cluj- Napoca, Romania	2012	A 2 Stage coaxial helical speed reducer geaings optimal design with genetic algorithms	Anexat - programul conferinței;	1.00
4	1	Proceedings of the 4th International Conference Power Transmissions, PT’12, 20-23 June, Sinaia, Romania	2012	Single-row planetary gearbox gearings optimiation using genetic algorithms	Anexat - programul conferinței, (https://www.bapt.eu/bapt.html)	1.00
5	1	The 3rd International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", ADEMS 2011	2011	Optimal mass design of a single-row planetary gearbox input shaft	Anexat - programul conferinței, (http://www.utcluj.ro/ade-ms11/)	1.00
6	1	The 2nd International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", ADEMS 2009	2009	Service life influence on optimal design of helical gear set	Anexat - programul conferinței, (http://www.utcluj.ro/ade-ms09/)	1.00

7	1	Proceedings of the 3rd International Conference Power Transmissions'09, PT'09, 1-2 October 2009, Kallithea, Greece	2009	Optimal design of two-stage speed reducer shafts	Anexat - programul conferinței, (https://www.bapt.eu/bapt.html)	1.00
8	1	The Fifth International Symposium about forming and design in mechanical engineering KOD 2008	2008	MULTI-OBJECTIVE OPTIMIZATION IN HELICAL GEARS DESIGN	http://www.kod.ftn.uns.ac.rs/index.html	1.00
9	1	The 1st International Conference "ADVANCED ENGINEERING IN MECHANICAL SYSTEMS", ADEMS 2007	2007	Minimal mass approach of helical gear design	http://www.utcluj.ro/adems07/	1.00

S

Atragere resurse financiare prin granturi/proiecte/contracte terți

Nr. Crt.	Calitatea: director = 1 membru în echipa = 2	Tip proiect	Titlul proiectului	Perioada de derulare	Valoare totală UTCN** [ech. Euro]	Valoarea alocată membrului în echipa de proiect*** [ech. Euro]	Punctaj individual
1	1	Contract cu terți, nr. 09.09.2020/ SC Power Belt SRL	Servicii de consultanță privind concepția și proiectarea unor sisteme de conveioare	2020-2021	2469.64		2.47
2	1	Contract cu terți, nr. 15.05.2019/ SC Power Belt SRL	Consultanță CAD privind realizarea și implementarea unei biblioteci 3D	2019-2020	2520.21		2.52
3	2	Competiție 2007, proiect tip IDEI, contract de cercetare de tip PN II IDEI cu CNCSIS, contractul nr.430/2007, ID_1007, director de proiect prof.dr.ing. Lucian Tudose	Proiectarea optimă a produselor cu ajutorul algoritmilor evolutivi	2007-2010	55563.796	10000	10.00

* Se va specifica fie tipul competiției, fie terți în cazul contractelor cu mediul economic

** Se va introduce valoarea fara TVA

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

Curs Euro:

09.09.2020 1 Euro=4.859

15.05.2019 1 Euro=4.7615

03.09.2007 1 Euro=3.2627

C Citări în publicații BDI (WOS și Scopus)

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Nr. crt.	Date de identificare complete ale articolului citat (se exclud autocitățile) ***	Date de identificare complete ale articolelor care citează	Anul în care a fost citată lucrarea	Linkul articolului care citează	Factorul de impact al publicației WOS în care apare citarea	Punctaj individual
1	Buiga, O. (2019) 3 Stage helical speed reducer partial gear ratios optimal determination using genetic algorithms, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, 20(2), 156-163, WOS:000475673700007, ISSN 1454-9069.	Tuan, N.K, Hong, T.T., Van Cuong, N., Ky, L.H., Tu, N.T., Tung, L.A., Hung, L.X., Vu, N.P. A Study on Determining Optimum Gear Ratios of Mechanical Driven Systems Using Two-Step Helical Gearbox with First Step Double Gear Sets and Chain Drive, Lecture Notes in Networks and Systems, 104, 85-93, 2020, DOI: 10.1007/978-3-030-37497-6_9 DOCUMENT TYPE: Book Chapter PUBLICATION STAGE: Final SOURCE: Scopus	2020	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076791752&doi=10.1007%2f978-3-030-37497-6_9&partnerID=40&md5=16f3b4112a421232897817e2421ce988		1.00
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