

## FIȘA PENTRU VERIFICAREA STANDARDELOR MINIMALE

Domeniul fundamental: *"Științe Inginerești"*

Comisia de specialitate: *"Inginerie mecanică, mecatronică și robotică"*

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Nr. crt.	Criterii de evaluare	Minim de îndeplinit (puncte)	Contribuție principală	Contribuție complementară	Valori calculate
1.	<b>Criteriul CDI</b> <i>Activitate de cercetare științifică, dezvoltare tehnologică și inovare</i>	Minim 10 puncte, din care minim 6 puncte din criteriul CDI-ART (Articole științifice publicate în reviste de specialitate cotate ISI sau în reviste/volume indexate ISI sau BDI)	17,864	42,96	<b>60,824</b>
2.	<b>Criteriul DID</b> <i>Activitate didactică și profesională</i>	Minim 10 puncte, din care minim 6 puncte din DID-MSD (Manuale-suport curs, format tipărit sau format electronic)	8,68	13,00	<b>21,680</b>
3.	<b>Criteriul RIA</b> <i>Recunoașterea și impactul activității</i>	Minim 10 puncte Contribuție principală (minim 60%) în calitate de director grant/proiect	21,30	28,534	<b>49,834</b>
<b>TOTAL</b>		<b>30 puncte</b>			<b>132,338</b>

## Criteriul CDI - Activitate de cercetare științifică, dezvoltare tehnologică și inovare

Indicatori CDI	Descriere	Punctaj	Observații	Punctaj
CDI-ART  (min. 60% din punctaj standard minimal)	Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI	$1 \text{ articol} = FI + \sum FI_{\text{al citarilor}}$ $1 \text{ articol} = FI_{\text{articol}} + \sum FI_{\text{citare}}$ $FI^* \equiv 0.1 + \text{Factor Impact}$	FI = factorul de impact ISI, FI = 0.1 pentru articole BDI respectiv FI=0 pentru alte tipuri de publicatii	<b>17,864</b>
			Din numărul de citări se exclud autocitările	
CDI-BRV	Brevete de invenție	1 brevet de invenție internațional = <b>3 puncte</b>		<b>0</b>
		1 brevet de invenție național = <b>1 punct</b>		<b>1</b>
CDI-MON	Monografii de specialitate sau capitole în monografii de specialitate	1 punct = <b>10 pagini</b> contribuție monografie în editură de prestigiu din străinătate*	Springer	<b>6,00</b>
		1 punct = <b>50 pagini</b> contribuție editură națională	Monografiile naționale trebuie să fie incluse în depozitul legal al Bibliotecii Naționale	<b>35,96</b>
Standard minimal profesor universitar / abilitare		<b>10 puncte</b>		<b>60,824</b>

### Criteriul CDI-ART

	Articol	FI articol	FI* articol	$\sum FI^*$ citare	Punctaj articol
<u>1</u>	<b>S. Butnariu, F. Gîrbacia, A. Orman, Methodology for 3D reconstruction of objects for teaching virtual restoration, International Journal of Computer Science Research and Application, ISSN/EISSN: 20129564, 20129572 Year: 2013 Volume: 03 Issue: 01 Pages: 16-21, Publisher: INREWI Publications, <a href="http://www.ijcsra.org/current-issue/v3i1">http://www.ijcsra.org/current-issue/v3i1</a> , Ebsco, DOAJ, Google Scholar, (Web of science – in curs)</b>	0	0,1	2,435	<b>2,535</b>
	<u>Citare 1.1</u> <i>Chetan Katoch, Close Range Photogrammetric Applications for 3-D realistic reconstruction of objects using still images, Thesis of Master of Science in Geo-information Science and Earth Observation, University of Twente, Enschede, Olanda <a href="http://scholar.google.ro/scholar?cluster=8734817111988767246&amp;hl=ro&amp;as_sdt=0,5&amp;scioldt=0,5">http://scholar.google.ro/scholar?cluster=8734817111988767246&amp;hl=ro&amp;as_sdt=0,5&amp;scioldt=0,5</a> Google Scholar</i>	0	0,1		
	<u>Citare 1.2</u> <i>Cs. Antonya, Force Feedback in String Based Haptic Systems, 2013 International Conference on Virtual and Augmented Reality in Education, Procedia Computer Science, doi:10.1016/j.procs.2013.11.011 <a href="http://www.sciencedirect.com/science/article/pii/S1877050913012167">http://www.sciencedirect.com/science/article/pii/S1877050913012167</a> Elsevier, ScienceDirect</i>	0	0,1		
	<u>Citare 1.3</u> <i>Gede, Matyas ; Meszaros, Janos , Digital Archiving and On-line Publishing of Old Relief Models, CARTOGRAPHIC JOURNAL Volume: 50 Issue: 3 Pages: 293-299 DOI: 10.1179/1743277413Y.0000000064 , aug. 2013 <a href="http://www.maneyonline.com/doi/abs/10.1179/1743277413Y.0000000064">http://www.maneyonline.com/doi/abs/10.1179/1743277413Y.0000000064</a>, Web of science</i>	0,424	0,524		

<u>Citare 1.4</u>	Scott, Jonathan, Richard Laing, and Graeme Hogg, <i>Built Heritage Digitization: Opportunities Afforded by Emerging Cloud Based Applications</i> , <i>Cloud Computing Technology and Science (CloudCom)</i> , 2013 IEEE 5th International Conference on. Vol. 2. IEEE, 2-5 dec. 2013, p. 88-93, doi 10.1109/CloudCom.2013.109 <a href="http://ieeexplore.ieee.org/xpl/abstractReferences.jsp?arnumber=6735401">http://ieeexplore.ieee.org/xpl/abstractReferences.jsp?arnumber=6735401</a> , IEEE, Google Scholar	0	0,1		
<u>Citare 1.5</u>	Cavas-Martínez, F.; Pérez-Sánchez, C.A.; Adrián-Sáez, J.; Cañavate, F.J.F.; Nieto, J.; Fernández-Pacheco, D.G., <i>Use of digital images for three-dimensional reconstruction of mechanical components</i> , 18th International Congress on Project Management and Engineering Alcañiz, 16-18th July 2014 <a href="http://scholar.google.ro/scholar?oi=bibs&amp;hl=ro&amp;cites=11393825234894159484">http://scholar.google.ro/scholar?oi=bibs&amp;hl=ro&amp;cites=11393825234894159484</a> , Google Scholar	0	0,1		
<u>Citare 1.6</u>	Marcello Carrozzino, Chiara Evangelista,, Caterina Bay Franco Tecchia, Dario Matteoni, Massimo Bergamasco, <i>An immersive information system for the communication of therestoration of Simone Martini's Polyptich</i> , <i>Journal of Cultural Heritage</i> , 2014, Available online 29 December 2014 <a href="http://www.sciencedirect.com/science/article/pii/S1296207414001708">http://www.sciencedirect.com/science/article/pii/S1296207414001708</a> , Web of science	1,111	1,211		
<u>Citare 1.7</u>	Camba Jorge D., Contero Manuel , <i>From reality to augmented reality: Rapid strategies for developing marker-based AR content using image capturing and authoring tools</i> , <i>Frontiers in Education Conference (FIE)</i> , 2015. 32614 2015. IEEE, 21-24 Oct. 2015, Camino Real El Paso, El Paso, TX, USA <a href="http://ieeexplore.ieee.org/xpl/abstractAuthors.jsp?arnumber=7344162">http://ieeexplore.ieee.org/xpl/abstractAuthors.jsp?arnumber=7344162</a> , DOI: 10.1109/FIE.2015.7344162 , Print ISBN: 978-1-4799-8454-1, IEEE	0	0,1		
<u>Citare 1.8</u>	Mila Koeva, <i>3D modelling in architectural photogrammetry</i> , <a href="https://www.researchgate.net/publication/290181410_3D_modelling_in_architectural_photogrammetry">https://www.researchgate.net/publication/290181410_3D_modelling_in_architectural_photogrammetry</a> DOI: 10.13140/RG.2.1.4975.1128, PhD Thesis, Google Scholar	0	0,1		
<u>Citare 1.9</u>	Sussan Leigh House, <i>Analysis of the application of digital photogrammetry in historic building documentation</i> , Thesis submitted to the graduate school in partial fulfillment of the requirements for the degree master of science historic preservation, Ball State University, Muncie, Indiana <a href="http://s3.amazonaws.com/academia.edu.documents/46258089/Analysis_of_the_Application_of_Digital_Photogrammetry_in_Historic_Building_Documentation.pdf?AWSAccessKeyId=AKIAJ56TQJRTWSMTNPEA&amp;Expires=1465720077&amp;Signature=pmsuu4B4gNGJijMf%2FIlaLYbzxEw%3D&amp;response-content-disposition=inline%3B%20filename%3DANALYSIS_OF_THE_APPLICATION_OF_DIGITAL_P.pdf">http://s3.amazonaws.com/academia.edu.documents/46258089/Analysis_of_the_Application_of_Digital_Photogrammetry_in_Historic_Building_Documentation.pdf?AWSAccessKeyId=AKIAJ56TQJRTWSMTNPEA&amp;Expires=1465720077&amp;Signature=pmsuu4B4gNGJijMf%2FIlaLYbzxEw%3D&amp;response-content-disposition=inline%3B%20filename%3DANALYSIS_OF_THE_APPLICATION_OF_DIGITAL_P.pdf</a> Google Scholar	0	0,1		
Citare 1.10	Jonathan L. Carrivick, Mark William Smith, Duncan J. Quincey, <i>Structure from Motion in the Geosciences</i> , Article · July 2016; DOI: 10.1002/9781118895818.ch4; <a href="https://www.researchgate.net/publication/305420465_Structure_from_Motion_in_the_Geosciences">https://www.researchgate.net/publication/305420465_Structure_from_Motion_in_the_Geosciences</a>				
<u>2</u>	<b>S.Butnariu</b> , F.Gîrbacia, <i>The command of a virtual industrial robot using a dedicated haptic interface</i> , ModTech 2013, publicat in <i>Advanced Materials Research</i> Vol. 837 (2014) pp 543-548, © (2014) Trans Tech Publications, Switzerland	0	0,1	0,624	<b>0,724</b>

	doi:10.4028/www.scientific.net/AMR.837.543 ISSN: 1662-8985 Ttp.net, Scopus, CPX, CSA, ISI, IEE <a href="http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=3">http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=3</a>				
	<u>Citare 2.1</u> R. Boboc, A. Dumitru, C. Antonya , Point-and-Command Paradigm for Interaction with Assistive Robots, International Journal of Advanced Robotic Systems, Int J Adv Robot Syst, 2015, 12:75   doi: 10.5772/60582 <a href="http://cdn.intechopen.com/pdfs-wm/48590.pdf">http://cdn.intechopen.com/pdfs-wm/48590.pdf</a> Web of science	0,524	0,624		
<u>3</u>	<b>S.Butnariu</b> , F.Gîrbacia , <i>High Quality 3D Restoration of Photographed Structures using V.R. Technologies</i> , IMM 2013 Hong Kong, publicat in Applied Mechanics and Materials Vol. 464 (2014) pp 391-398 © (2014) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.464.391 Ttp.net, Scopus, CPX, CSA, ISI, IEE <a href="http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=4">http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=4</a>	0	0,1	0	<b>0,1</b>
<u>4</u>	F. Gîrbacia; <b>S. Butnariu</b> ; Orman, A. Petre, C. Postelnicu, Virtual restoration of deteriorated religious heritage objects using augmented reality technologies , European Journal of Science and Theology Volume: 9 Issue: 2 Pages: 223-231 <a href="http://www.ejst.tuiasi.ro/Files/37/23_Girbaciaetal.pdf">http://www.ejst.tuiasi.ro/Files/37/23_Girbaciaetal.pdf</a> Web of science, Scopus	0,389	0,489	4,086	<b>4,575</b>
	<u>Citare 4.1</u> I. Rubino, J. Xhembulla, A. Martina, A. Bottino, G. Malnati, MusA: Using Indoor Positioning and Navigation to Enhance Cultural Experiences in a Museum, Sensors 2013, 13, 17445-17471; doi:10.3390/s131217445 <a href="http://www.mdpi.com/1424-8220/13/12/17445">http://www.mdpi.com/1424-8220/13/12/17445</a> Web of science, SRI=1,4	1,953	2,053		
	<u>Citare 4.2</u> A.Martina, <i>Virtual Heritage: new technologies for edutainment</i> , PhD Thesis, Dottorato in Ingegneria Informatica e dei Sistemi, XXV ciclo, Politecnico di Torino <a href="http://porto.polito.it/2541502/">http://porto.polito.it/2541502/</a> Google Scholar	0	0,1		
	<u>Citare 4.3</u> Emmanuel Durand, Frederic Merienne, Christian Pere, Patrick Callet, <i>Ray-on, an On-Site Photometric Augmented Reality Device</i> , Journal on Computing and Cultural Heritage (JOCCH), doi>10.1145/2629485 <a href="http://dl.acm.org/citation.cfm?id=2629485&amp;prelayout=tabs">http://dl.acm.org/citation.cfm?id=2629485&amp;prelayout=tabs</a> ACM, Web of science	0	0,1		
	<u>Citare 4.4</u> Nadege Zarrouati-Vissiere , <i>Augmented reality: the fusion of vision and navigation.</i> , Ecole Nationale Supérieure des Mines de Paris, 2013. English. <NNT : 2013ENMP0061>.<pastel-00961962> PhD Thesis <a href="https://pastel.archives-ouvertes.fr/pastel-00961962">https://pastel.archives-ouvertes.fr/pastel-00961962</a> Google Scholar	0	0,1		
	<u>Citare 4.5</u> Paola Di Giuseppantonio Di Franco, Justin L. Matthews, Teenie Matlock , <i>Framing the past: How virtual experience affects bodily description of artefacts</i> , Journal of Cultural Heritage, Volume 17, January–February 2016, Pages 179–187, DOI: 10.1016/j.culher.2015.04.006 <a href="http://www.sciencedirect.com/science/article/pii/S1296207415000850">http://www.sciencedirect.com/science/article/pii/S1296207415000850</a> Elsevier	1,533	1,633		
	<u>Citare 4.6</u> Inagaki, Takuya; Motoyama, Kiyofumi, <i>Onsite experience of past exhibitions using augmented reality technology and display of sculpture</i> ,	0	0,1		

		SGEM2014 CONFERENCE ON ARTS, PERFORMING ARTS, ARCHITECTURE & DESIGN, Vol. 1, No. SGEM2014 Conference Proceedings, ISBN 978-619-7105-30-08/ ISSN 2367-5659, September 1-9, 2014, Vol. 1, 195-202 pp. doi:10.5593/sgemsocial2014/B41/S13.022 <a href="http://sgemsocial.org/ssgemlib/spip.php?article905">http://sgemsocial.org/ssgemlib/spip.php?article905</a> Web of Knowledge				
5	S. Butnariu, F.Gîrbacia, <i>Methodology for the identification of needles trajectories in robotic brachytherapy procedure using VR technology</i> , Optirob 2013, publicat in Applied Mechanics and Materials Vol. 332 (2013) pp 503-508, © (2013) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/ AMM.332.503 Web of Science, Scopus, Ttp.net, CPX, CSA, ISI, IEE <a href="http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=2">http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=3&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=2</a>	0	0,1	3,43	3,53	
	<u>Citare 5.1</u> Galdau, B.; Plitea, N.; Vaida, C.; Covaciu, F., <i>Design and control system of a parallel robot for brachytherapy</i> , IEEE International Conference on Automation, Quality and Testing, Robotics, 22-24 May 2014, Cluj Napoca, doi 10.1109/AQTR.2014.6857873 <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6857873&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6857873">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6857873&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6857873</a>	0	0.1			
	<u>Citare 5.2</u> Shaoli Liu, Zeyang Xia, Jianhua Liu, Jing Xu, He Ren, Tong Lu, Xiangdong Yang, <i>Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy</i> , Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy. PLoS ONE 11(3): e0149482. doi:10.1371/journal.pone.0149482 <a href="http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0149482">http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0149482</a> Web of science	3,23	3,33			
6	S. Butnariu, F.Gîrbacia, <i>Development of a natural user interface for intuitive presentations in educational process</i> , Proceedings of 8 <sup>th</sup> International Scientific Conference eLearning and Software for Education, 2012 <a href="https://www.cceol.com/search/article-detail?id=203546">https://www.cceol.com/search/article-detail?id=203546</a> Web of science, ProQuest	0	0,1	0,6	0,7	
	<u>Citare 6.1</u> Antonya, Cs., <i>Accuracy of Gaze Point Estimation in Immersive 3D Interaction Interface Based on Eye Tracking</i> , 12 <sup>th</sup> International Conference on Control, Automation, Robotics and Vision (ICARCV) Location: Guangzhou, Peoples R. China, Dec 05-07, 2012 <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6485315&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6485315">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6485315&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6485315</a> Web of science	0	0,1			
	<u>Citare 6.2</u> Jinuk Kim, Sehoon Kim, Kwangjin Hong, David Jean, Keechul Jung, <i>Presentation Interface Based on Gesture and Voice Recognition</i> , Vol. Multimedia and Ubiquitous Engineering, DOI 10.1007/978-3-642-54900-7_11, Print ISBN 978-3-642-54899-4, Online ISBN 978-3-642-54900-7, Series Title Lecture Notes in Electrical Engineering <a href="http://link.springer.com/chapter/10.1007%2F978-3-642-54900-7_11">http://link.springer.com/chapter/10.1007%2F978-3-642-54900-7_11</a> Springer	0	0,1			

	<u>Citare</u> 6.3	Minjae Park, Joohee Kang, Seongwon Park and Kwangsu Cho, <i>A Natural User Interface for E-learning Learners: Focused on the Automatic Speed Control of Multimedia Materials</i> , <i>International Journal of Multimedia and Ubiquitous Engineering</i> ; Vol.9, No.7 (2014), pp.347-358 <a href="http://dx.doi.org/10.14257/ijmue.2014.9.7.29">http://dx.doi.org/10.14257/ijmue.2014.9.7.29</a> <a href="http://connection.ebscohost.com/c/articles/97818463/natural-user-interface-e-learning-learners-focused-automatic-speed-control-multimedia-materials">http://connection.ebscohost.com/c/articles/97818463/natural-user-interface-e-learning-learners-focused-automatic-speed-control-multimedia-materials</a> Open Access, Ebsco	0	0,1		
	<u>Citare</u> 6.4	Douglas dos Santos Ferreira, <i>Interacao Natural por Meio de Gestos para Apoio a Docentes no Processo de Ensino em Saude</i> , Universidade Federal da Paraiba, Dissertacao de Mestrado, ed. Joao Pessoa 2014 <a href="http://sistemas.ufpb.br/sigaa/public/programa/noticias_desc.jsf?lc=lc=lc=lc=en_US&amp;id=1879&amp;noticia=20504039">http://sistemas.ufpb.br/sigaa/public/programa/noticias_desc.jsf?lc=lc=lc=lc=en_US&amp;id=1879&amp;noticia=20504039</a> Google Scholar	0	0,1		
	<u>Citare</u> 6.5	Warda Ikram, Yoonji Jeong, Byeongwon Lee, Kyhyun Um, Kyungeun Cho, <i>Smart Virtual Lab Using Hand Gestures</i> , <i>Advanced Multimedia and Ubiquitous Engineering Lecture Notes in Electrical Engineering Volume 352</i> , 2015, pp 165-170 <a href="http://link.springer.com/chapter/10.1007/978-3-662-47487-7_25">http://link.springer.com/chapter/10.1007/978-3-662-47487-7_25</a> Springer	0	0,1		
	<u>Citare</u> 6.6	Wardhany, Vivien Arief; Kurnia, Muhammad Hendrick; Sukaridhoto, Sritrusta; Sudarsono, Amang; Pramadihanto, Dadet, <i>Smart presentation system using hand gestures and Indonesian speech command</i> , <i>Electronics Symposium (IES), 2015 International, Surabaya, Indonesia, 29-30 Sept. 2015</i> , Pages: 68 - 72, DOI: 10.1109/ELECSYM.2015.7380816 <i>IEEE Conference Publications, Print ISBN: 978-1-4673-9344-7</i> <a href="http://ieeexplore.ieee.org/am/enformation.ro/xpl/articleDetails.jsp?arnumber=7380816&amp;newsearch=true&amp;queryText=Smart%20presentation%20system%20using%20hand%20gestures%20and%20Indonesian%20speech%20command">http://ieeexplore.ieee.org/am/enformation.ro/xpl/articleDetails.jsp?arnumber=7380816&amp;newsearch=true&amp;queryText=Smart%20presentation%20system%20using%20hand%20gestures%20and%20Indonesian%20speech%20command</a> IEEE	0	0,1		
7		F. Girbacia, <b>S. Butnariu</b> , <i>An innovative approach to teaching mechanism using augmented reality technologies</i> , Proceedings of 8 <sup>th</sup> International Scientific Conference eLearning and Software for Education, 2012 Web of science, ProQuest <a href="http://search.proquest.com/openview/4c901a30be32cdc38eff017a82292ad5/1?pq-origsite=gscholar">http://search.proquest.com/openview/4c901a30be32cdc38eff017a82292ad5/1?pq-origsite=gscholar</a>	0	0,1	0,2	<b>0,3</b>
	<u>Citare</u> 7.1	Cs. Antonya, <i>Force Feedback in String Based Haptic Systems</i> , 2013 <i>International Conference on Virtual and Augmented Reality in Education</i> , <i>Procedia Computer Science</i> <a href="http://www.sciencedirect.com/science/article/pii/S1877050913012167">http://www.sciencedirect.com/science/article/pii/S1877050913012167</a> Elsevier, ScienceDirect	0	0,1		
	<u>Citare</u> 7.2	Cs. Antonya, <i>Hybrid Dynamic Model for Haptic Systems with Planar Mechanisms</i> , <i>The 6th IEEE International Conference on Robotics, Automation and Mechatronics (RAM)</i> <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6758579&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6758579">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6758579&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fexpl%2Fabs_all.jsp%3Farnumber%3D6758579</a> IEEE Library, ISI, EI Compendex	0	0,1		

8	T. Butnaru, F. Girbacia, <b>S. Butnariu</b> , A. Beraru, D. Talaba, <i>An approach for teaching mechanisms using haptic systems</i> , Proceedings of ICVL 2011 (Print ISSN 1844 - 8933), The 6th International Conference on Virtual Learning , Web of science, WikiCFP, Google <a href="http://www.icvl.eu/2011/disc/icvl/documente/pdf/work/ICVL_Workshop_paper02.pdf">http://www.icvl.eu/2011/disc/icvl/documente/pdf/work/ICVL_Workshop_paper02.pdf</a> <a href="http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=1">http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=Z11niTfVdVj5t5QoJyC&amp;page=1&amp;doc=1</a>	0	0,1	0,6	<b>0,7</b>
<u>Citare 8.1</u>	<i>Dorin-Mircea Popovici, Felix G. Hamza-Lup, Haptic feedback systems in education , The 9<sup>th</sup> International Scientific Conference eLearning and software for Education Bucharest, April 25-26, 2013</i> <a href="http://cerva.ro/publication/haptic-feedback-systems-in-education/">http://cerva.ro/publication/haptic-feedback-systems-in-education/</a> Web of science, Google Scholar	0	0,1		
<u>Citare 8.2</u>	<i>E. Butilă, Gh. Mogan, Learning to design mechanical transmission with gears using web interface, 3rd World Conference on Information Technology (WCIT-2012) Vol 03 (2013) 1093-1098, 14-16 November 2012, University of Barcelona, Spain.</i> <a href="http://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=EdG6rW8AAAAJ&amp;citation_for_view=EdG6rW8AAAAJ:eq2jaN3J8jMC">http://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=EdG6rW8AAAAJ&amp;citation_for_view=EdG6rW8AAAAJ:eq2jaN3J8jMC</a> Open Journal Systems, Google Scholar	0	0,1		
<u>Citare 8.3</u>	<i>Felix G. Hamza-Lup, D.M. Popovici, C. Bogdan, Haptic feedback systems in medical education , Journal of Advanced Distributed Learning Technology, vol.1, nr.2</i> <a href="http://jadlet.com/index.php/jadlet/article/view/4">http://jadlet.com/index.php/jadlet/article/view/4</a> Open Journal Systems, Google Scholar	0	0,1		
<u>Citare 8.4</u>	<i>Majid H Koul, Subir K Saha, M Manivannan , Teaching Mechanism Dynamics using a Haptic Device, Proceedings of the 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), IIT Roorkee, India, Dec 18-20 2013</i> <a href="http://www.academia.edu/5703362/">http://www.academia.edu/5703362/</a> <i>Teaching Mechanism Dynamics using a Haptic</i> Google Scholar	0	0,1		
<u>Citare 8.5</u>	<i>James Jose, Nagarajan Akshay, Rao R. Bhavani, Learning Elementary Physics through Haptic Simulations, ICONIAAC '14 Proceedings of the 2014 International Conference on Interdisciplinary Advances in Applied Computing</i> Article No. 27, ACM New York, ISBN: 978-1-4503-2908-8 doi>10.1145/2660859.2660937 <a href="http://dl.acm.org/citation.cfm?id=2660937">http://dl.acm.org/citation.cfm?id=2660937</a> ACM	0	0,1		
<u>Citare 8.6</u>	<i>D.M. Popovici, Virtual environments for education, training and cultural heritage, Teza de abilitare,</i> <a href="http://www.unibv.ro/Portals/31/Abilitare/Teze/Teza/teza%20abilitare%20ENG%20Popovici%20DM%20rev%202.pdf">http://www.unibv.ro/Portals/31/Abilitare/Teze/Teza/teza%20abilitare%20ENG%20Popovici%20DM%20rev%202.pdf</a> Google Scholar	0	0,1		
9	<b>S. Butnariu</b> , <i>Transmission error in synchronous belt drives</i> , Balkan Journal of Mechanical Transmissions, Volume 1 (2011), Issue 1, pp. 18-21, ISSN 2069–5497 , Google Scholar <a href="http://www.bjmt.pub.ro/1106.pdf">http://www.bjmt.pub.ro/1106.pdf</a>	0	0,1	0	<b>0,1</b>
10	C. Antonya, F. Barbuceanu, Z. Rusak, D. Talaba, <b>S. Butnariu</b> , <i>Obstacle avoidance in simulated environment using eye tracking technologies</i> , ASME International Design Engineering TEChnical	0	0,1	0	<b>0,1</b>

	Conferences and Computers and Information in ENGINEering Conference, Proceedings, vol 2, pts A and B Pages: 1581-1590 <a href="http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1649398">http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1649398</a> Web of science, Scopus					
12	S. Butnariu, D. Talaba, <i>Advanced Approaches Using VR Simulations for Teaching Mechanisms</i> , Eucomes 2010, Mechanisms and Machine Science, vol 5, New Trends in Mechanism Science, 2010, <b>Declarat la CDI-MON</b> , Springer <a href="http://link.springer.com/chapter/10.1007/978-90-481-9689-0_60">http://link.springer.com/chapter/10.1007/978-90-481-9689-0_60</a>	0	0	0,2	<b>0,2</b>	
	<u>Citare 12.1</u> Cs. Antonya, <i>Hybrid Dynamic Model for Haptic Systems with Planar Mechanisms</i> , <i>The 6th IEEE International Conference on Robotics, Automation and Mechatronics (RAM)</i> IEEE Library, ISI, EI Compendex <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6758579&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6758579">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6758579&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6758579</a>	0	0,1			
	<u>Citare 12.2</u> E. Butilă, Gh. Mogan, <i>Learning to design mechanical transmission with gears using web interface</i> , <i>3<sup>rd</sup> World Conference on Information Technology (WCIT-2012) Vol 03 (2013) 1093-1098, 14-16 November 2012, University of Barcelon, Spain.</i> <a href="http://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=EdG6rW8AAAAJ&amp;citation_for_view=EdG6rW8AAAAJ:eg2jaN3J8jMC">http://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=EdG6rW8AAAAJ&amp;citation_for_view=EdG6rW8AAAAJ:eg2jaN3J8jMC</a> <i>Open Journal Systems, Google Scholar</i>	0	0,1			
13	<b>S. Butnariu</b> , <i>Aspects of development of planetary mechanism using synchronous belts drive</i> , <i>Annals of DAAAM for 2008 &amp; Proceedings of the 19th International DAAAM Symposium Book Series: Annals of DAAAM and Proceedings</i> Pages: 181-182 Published: 2008 Web of science <a href="https://www.researchgate.net/publication/259656446_Aspects_of_development_of_planetary_mechanism_using_synchronous_belts_drive">https://www.researchgate.net/publication/259656446_Aspects_of_development_of_planetary_mechanism_using_synchronous_belts_drive</a>	0	0,1	0	<b>0,1</b>	
14	<b>S. Butnariu</b> , D. Talaba, <i>Virtual prototyping in design of synchronous belts drives</i> , <i>Int. J. of Design Engineering</i> , 2008 Vol.1, No.4, pp.380 - 395 , ERA, Gale, CSA, Inspec, Scirus, Google Scholar <a href="http://www.inderscienceonline.com/doi/abs/10.1504/IJDE.2008.024788">http://www.inderscienceonline.com/doi/abs/10.1504/IJDE.2008.024788</a>	0	0,1	0	<b>0,1</b>	
15	<b>S. Butnariu</b> , <i>Synchronous Belts Fracture Analysis using MBS Method</i> , <i>Buletinul Universității de Petrol Gaze, Ploiești, seria tehnică</i> , vol. LXIII, nr.1 / 2011 , EBSCO, CNCSIS B+, Google Scholar <a href="http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=12248495&amp;AN=74295872&amp;h=v2%2fBQ7eliOTygyIPvtA9dvZKmwQJzqgHNwr8renLydBORe13%2fvQO01bvE5Au5i7ozbUY0%2bXyC6WfDuXR2yFK0g%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d12248495%26AN%3d74295872">http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=12248495&amp;AN=74295872&amp;h=v2%2fBQ7eliOTygyIPvtA9dvZKmwQJzqgHNwr8renLydBORe13%2fvQO01bvE5Au5i7ozbUY0%2bXyC6WfDuXR2yFK0g%3d%3d&amp;crl=c&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d12248495%26AN%3d74295872</a>	0	0,1	0	<b>0,1</b>	
16	Gh. Mogan, <b>S. Butnariu</b> , <i>Analiza cu elemente finite. Aplicatii in CATIA</i> , Ed. Universității Transilvania. <a href="https://www.researchgate.net/publication/260035274_Mogan_Gh_Butnariu_S_Analiza_cu_elemente_finite_Aplicatii_in_CATIA_Ed_Universitatii_Transilvania_ISBN_978-973-598-159-4_2007">https://www.researchgate.net/publication/260035274_Mogan_Gh_Butnariu_S_Analiza_cu_elemente_finite_Aplicatii_in_CATIA_Ed_Universitatii_Transilvania_ISBN_978-973-598-159-4_2007</a>	0	0	1,404	<b>1,404</b>	
	<u>Citare 16.1</u> M.T. Lates, R.S. Lates, A. Jula, M. State, <i>Finite Element Analysis of the whisper h80 wind turbine's tower</i> , <i>Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume X (XX), 2011, NR2, ISBN 1583-0691</i> , CNCSIS B+, Google Scholar <a href="http://imtuoradea.ro/auo.fmte/article.php?v1=2011-2">http://imtuoradea.ro/auo.fmte/article.php?v1=2011-2</a>	0	0,1			



	Citare 16.2	Moldovean, Gh., Butuc, B., Velicu, R, Shafts design of a gear based azimuthal tracked photovoltaic platform , ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 10 Issue: 9 Pages: 1291-1298 Published: SEP'11 , Web of science, Scopus <a href="http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/14_374_Moldovean_11.pdf">http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol10/no9/14_374_Moldovean_11.pdf</a>	1,004	1,104		
	Citare 16.3	Urdea, M., Static analysis for hardy coupling, Journal of industrial design and engineering graphics, volume 9, issue 1, july 2014 , CNCSIS B+, Google Scholar <a href="http://www.sorging.ro/ro/revista/volume-9-issu-no-1-2014/static-analysis-for-hardy-coupling">http://www.sorging.ro/ro/revista/volume-9-issu-no-1-2014/static-analysis-for-hardy-coupling</a>	0	0,1		
	Citare 16.4	Stroe, I., Loading Cell for the Measurement of Forces and Torques in the Prehensile Joint of Industrial Robots, Paripex - Indian Journal of Research, Vol.4., Issue 12, December 2015, ISSN - 2250-1991 <a href="http://worldwidejournals.in/ojs/index.php/pij/article/view/3459">http://worldwidejournals.in/ojs/index.php/pij/article/view/3459</a> Google Scholar, DJOF, CiteFactor	0	0,1		
17.	M. Urdea, <b>S. Butnariu</b> , Consideration About Elastic Couplings Modeled in CATIA, Innovative Manufacturing Engineering Conference, May 29-30, 2014, Chişinău-Republic of MOLDOVA Web of science, Scopus, Ttp.net, <a href="http://www.scientific.net/AMM.657.760">http://www.scientific.net/AMM.657.760</a> <a href="http://apps.webofknowledge.com/am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=N2MZS1b4uAWCIefeCfM&amp;page=1&amp;doc=1">http://apps.webofknowledge.com/am.enformation.ro/full_record.do?product=UA&amp;search_mode=GeneralSearch&amp;qid=1&amp;SID=N2MZS1b4uAWCIefeCfM&amp;page=1&amp;doc=1</a>		0	0,1	0	<b>0,1</b>
18.	C. Antonya, <b>S. Butnariu</b> , C. Pozna, Parameter computation of the hand model in virtual grasping, 5 <sup>th</sup> IEEE Conference on Cognitive Infocommunications, CogInfo 2014 , IEEE <a href="http://ieeexplore.ieee.org/document/7020440/?reload=true&amp;arnumber=7020440">http://ieeexplore.ieee.org/document/7020440/?reload=true&amp;arnumber=7020440</a>		0	0,1	0	<b>0,1</b>
19.	<b>S. Butnariu</b> , F. Gîrbacia, A. B. Şupială, An approach to teaching Machine Tools using Virtual Reality technologies, Proceedings of ICVL 2014 (ISSN 1844-8933, ISI Proceedings) - the 9th International Conference on Virtual Learning, Models & methodologies, technologies, software solutions <a href="http://www.icvl.eu/">www.icvl.eu/</a> <a href="https://www.scribd.com/doc/243333879/Proceedings-of-ICVL-2014-ISSN-1844-8933">https://www.scribd.com/doc/243333879/Proceedings-of-ICVL-2014-ISSN-1844-8933</a>		0	0,1	0	<b>0,1</b>
20.	F. Gîrbacia, B. Gherman, <b>S. Butnariu</b> , N. Plitea, D. Talabă and D. Pislă, Virtual Planning of Needle Trajectories using a Haptic Interface for a Brachytherapy Parallel Robot: an evaluation study, 22th International Conference on Robotics, ROBOTICS'2014 (October 23th-25th, 2014, Bucharest, Romania), Applied Mechanics and Materials (Volume 762), DOI:10.4028/www.scientific.net/AMM.762.155 <a href="http://www.scientific.net/AMM.762.155">http://www.scientific.net/AMM.762.155</a> ; ttp.net,		0	0,1	0	<b>0,1</b>
21.	F. Gîrbacia, <b>S. Butnariu</b> , D. Voinea, Tolea B., Gîrbacia T., Pislă D.: A Virtual Reality System for Pre-Planning of Robotic-Assisted Prostate Biopsy, Applied Mechanics and Materials Vol 772 (2015) pp 585-590, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.772.585 <a href="http://www.ttp.net/978-3-03835-502-1/11.html">http://www.ttp.net/978-3-03835-502-1/11.html</a> , ISI, Optirob 2015		0	0,1	0	<b>0,1</b>
22.	D. Voinea, <b>S. Butnariu</b> , Design of a Scoliosis Monitoring System using Inertial Sensors, Applied Mechanics and Materials Vol 772 (2015) pp 597-602, © (2015) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.772.597 <a href="http://www.ttp.net/978-3-03835-502-1/11.html">http://www.ttp.net/978-3-03835-502-1/11.html</a> , ISI, Optirob 2015		0	0,1	0	<b>0,1</b>
23.	F. Gîrbacia, T. Gîrbacia, <b>S. Butnariu</b> , Design review of CAD models using a nui leap motion sensor, Journal of Industrial Design and Engineering Graphics (JIDEG), Volume 7 issue 1, June 2015		0	0,1	0	<b>0,1</b>

	<a href="http://www.sorging.ro/ro/revista/volume-10-special-issue-fascicle-3/design-review-of-cad-models-using-a-nui-leap-motion-sensor">http://www.sorging.ro/ro/revista/volume-10-special-issue-fascicle-3/design-review-of-cad-models-using-a-nui-leap-motion-sensor</a> ; Index Copernicus, DOAJ, EBSCO, ProQuest.				
24.	C. Antonya, <b>S. Butnariu</b> , H. Beles, <i>Geometric identification of a four-bar linkage from noisy tracking data</i> , Conference paper: The 14th IFToMM World Congress, At Taipei, Taiwan DOI: 10.6567/IFToMM.14TH.WC.OS2.012 <a href="http://www.iftomm2015.tw/IFToMM2015CD/PDF/OS2-012.pdf">http://www.iftomm2015.tw/IFToMM2015CD/PDF/OS2-012.pdf</a>	0	0,1	0	<b>0,1</b>
25.	D.Pisla, B. Gherman, F. Girbacia, C. Vaida, <b>S. Butnariu</b> , T. Girbacia, N. Plitea, <i>Optimal Planning of Needle Insertion for Robotic-assisted Prostate Biopsy</i> , Advances in Robot Design and Intelligent Control, Advances in Intelligent Systems and Computing Volume 371, 2016, pp 339-346 , Date: 08 Aug 2015 <a href="http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34">http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34</a> DOI: 10.1007/978-3-319-21290-6_34; Series ISSN: 2194-5357	0	0	0,1	<b>0,1</b>
	Citare 25.1 Doina Pisla, Darius Ani, Calin Vaida, Bogdan Gherman, Paul Tucan, Nicolae Plitea, <i>BIO-PROS-2: An innovative parallel robotic structure for transperineal prostate biopsy</i> , Published in: 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), DOI: 10.1109/AQTR.2016.7501308, <a href="http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&amp;number=7501308&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D7501308">http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&amp;number=7501308&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D7501308</a>	0	0,1		
26.	<b>S. Butnariu</b> , A.S. Nica, G. Mogan, G. Mologhianu, C. Antonya, <i>An algorithm to calculate the spine posture using a tracking mobile device</i> , poster + abstract, Journal of Rehabilitation Medicine, Vol.48, Issue 55, aug. 2016, Abstract for The 10 <sup>th</sup> International Society of Physical Rehabilitation World Congress ISPRM 2016, Kuala Lumpur, 29 May-2 June, 2016. DOI: 10.2340/16501977-2139 <a href="http://www.medicaljournals.se/jrm/content/?volume=48&amp;issue=55">http://www.medicaljournals.se/jrm/content/?volume=48&amp;issue=55</a>	1,595	0,1	0	<b>1,695</b>
27.	C. Antonya, <b>S. Butnariu</b> , C. Pozna, <i>Real-time representation of the human spine with absolute orientation sensors</i> , The 14 <sup>th</sup> International Conference on Control, Automation, Robotics and Vision, ICARCV 2016, November 13 –15, 2016, Phuket, Thailand IEEE <a href="http://icarcv.org/2016/home.asp">http://icarcv.org/2016/home.asp</a>				
<b>TOTAL CDI-ART</b>					<b>17,864</b>

#### Criteriul CDI-BRV

	Denumire	Punctaj
1.	<b>Butnariu S.</b> , Butila E., Talaba D., Sistem haptic pentru simularea funcționării mecanismelor articulate și modul de utilizare a acestuia, RO129033 (A0) — 2013-11-29 <a href="http://apps.webofknowledge.com.am.enformation.ro/full_record.do?colName=DIIDW&amp;recordID=2013W66402&amp;log_event=no&amp;page=1&amp;qid=12&amp;log_event=yes&amp;viewType=fullRecord&amp;SID=X1xqUn59Dxsxzd7qgG&amp;product=UA&amp;doc=6&amp;search_mode=GeneralSearch">http://apps.webofknowledge.com.am.enformation.ro/full_record.do?colName=DIIDW&amp;recordID=2013W66402&amp;log_event=no&amp;page=1&amp;qid=12&amp;log_event=yes&amp;viewType=fullRecord&amp;SID=X1xqUn59Dxsxzd7qgG&amp;product=UA&amp;doc=6&amp;search_mode=GeneralSearch</a>	1
<b>TOTAL CDI-BRV</b>		<b>1</b>

#### Criteriul CDI-MON

	Denumire	nr. pag.	Punctaj
<b>Edituri naționale</b>			
1.	<b>S. Butnariu</b> , Transmisii prin curele sincrone, Ed. Universității Transilvania, 2009, ISBN 978-973-598-495-3	265	<b>5,30</b>

2.	Mogan, Gh., <b>Butnariu, S.</b> , Gruender, W., Kuchar, P., <i>Organe de mașini. Teorie-Proiectare-Aplicații</i> , Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0069-5 (print), ISBN 978-606-19-0070-1 (CD), 2012.	265	<b>5,30</b>
3.	Mogan, Gh., <b>Butnariu, S.</b> , <i>Organe de mașini. Teorie-Proiectare-Aplicații</i> , editia a II-a, Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0312-2 (CD), 2013.	300	<b>6,00</b>
4.	Mogan, Gh., <b>Butnariu, S.</b> , <i>Modelarea și Analiza cu Metoda Elementelor Finite în Inginerie. Teorie și Aplicații practice (sistem integrat)</i> , Ediția I, editura:Editura Universitatii Transilvania din Brasov isbn:978-606-19-0311-5 An Aparitie:2014 NrAutori:2 TotalNrPagini:478, <a href="http://simef.rrv.ro">http://simef.rrv.ro</a> (student/mogan)	478	<b>9,56</b>
5.	Mogan, Gh., <b>Butnariu, S.</b> , <i>Organe de mașini. Teorie-Proiectare-Aplicații (sistem integrat)</i> , editia a III-a, Ed. Universității Transilvania din Brașov, ISBN 978-606-19-0712-0 (CD), 2015. <a href="http://mg.rrv.ro/">http://mg.rrv.ro/</a> (student/mogan)	490	<b>9,80</b>
		<b>Total edituri naționale</b>	<b>35,96</b>
<b>Edituri internaționale</b>			
2.	B. Gherman, T. Girbacia, D. Cocorean, C. Vaida, <b>S. Butnariu</b> , N. Plitea, D. Talaba, D. Pisla, Virtual Planning of Needle Guidance for a Parallel Robot Used in Brachytherapy, Chapter in: New Trends in Medical and Service Robots, Volume 38 of the series Mechanisms and Machine Science, Springer International Publishing, pp 109-120, DOI: 10.1007/978-3-319-23832-6_9 <a href="http://link.springer.com/chapter/10.1007%2F978-3-319-23832-6_9">http://link.springer.com/chapter/10.1007%2F978-3-319-23832-6_9</a>	12	<b>1,2</b>
3.	C. Antonya, <b>S. Butnariu</b> , H. Beles, Parameter estimation from motion tracking data, Digital Human Modeling. Applications in Health, Safety, Ergonomics and Risk Management: Ergonomics and Health, Lecture Notes in Computer Science Volume 9185, 2015, pp 113-121 <a href="http://link.springer.com/chapter/10.1007/978-3-319-21070-4_12">http://link.springer.com/chapter/10.1007/978-3-319-21070-4_12</a> , DOI: 10.1007/978-3-319-21070-4_12	9	<b>0,9</b>
4.	D.Pisla, B. Gherman, F. Girbacia, C. Vaida, <b>S. Butnariu</b> , T. Girbacia, N. Plitea, Optimal Planning of Needle Insertion for Robotic-assisted Prostate Biopsy, Advances in Robot Design and Intelligent Control, Advances in Intelligent Systems and Computing Volume 371, 2016, pp 339-346, Date: 08 Aug 2015 <a href="http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34">http://link.springer.com/chapter/10.1007/978-3-319-21290-6_34</a> DOI: 10.1007/978-3-319-21290-6_34; Series ISSN: 2194-5357	8	<b>0,8</b>
5.	<b>S. Butnariu</b> , C. Antonya, Correction method for spine flexion tracking with markers, Chapter in New Trends in Medical and Service Robots, Volume 39 of the series Mechanisms and Machine Science pp 265-275 <a href="http://link.springer.com/chapter/10.1007/978-3-319-30674-2_20">http://link.springer.com/chapter/10.1007/978-3-319-30674-2_20</a> DOI:10.1007/978-3-319-30674-2_20; Print ISBN: 978-3-319-30673-5 Online ISBN: 978-3-319-30674-2	11	<b>1,1</b>
6.	<b>S. Butnariu</b> , D. Talaba, Advanced Approaches Using VR Simulations for Teaching Mechanisms, Eucomes 2010 Chapter in New Trends in Mechanism Science, Vol. 5 of the series Mechanisms and Machine Science pp 519-526, <a href="http://link.springer.com/chapter/10.1007%2F978-90-481-9689-0_60">http://link.springer.com/chapter/10.1007%2F978-90-481-9689-0_60</a>	8	<b>0,8</b>
7.	<b>S. Butnariu</b> , Strategy for Optimizing the Synchronous Belt Drives Design, SYROM 2009: Proceedings of the 10 <sup>th</sup> IFTOMM International Symposium on Science of Mechanisms and Machines, 2009 Pages: 495-501 DOI: 10.1007/978-90-481-3522-6_40, <a href="http://link.springer.com/chapter/10.1007%2F978-90-481-3522-6_40">http://link.springer.com/chapter/10.1007%2F978-90-481-3522-6_40</a>	7	<b>0,7</b>
8.	Gh. D. Voinea, C. Postelnicu, <b>S. Butnariu</b> , Challenges Involved in the Design of an e-Health Application for a Wearable Scoliosis Monitoring System, Chapter in HCI International 2016 – Posters' Extended Abstracts, Volume 618 of the series Communications in Computer and Information Science pp 339-344, DOI 10.1007/978-3-319-40542-1_56, <a href="http://link.springer.com/chapter/10.1007/978-3-319-40542-1_56">http://link.springer.com/chapter/10.1007/978-3-319-40542-1_56</a>	5	<b>0,5</b>
		<b>Total edituri internaționale</b>	<b>6,00</b>
		<b>TOTAL CDI-MON</b>	<b>41,96</b>

## Criteriul DID - Activitate didactică și profesională

Indicatori DID	Descriere	Punctaj	Observații	Punctaj
<b>DID-MSC</b> (min. 60% din punctaj standard minimal)	Manuale suport curs, format tipărit sau format electronic	1 punct = 50 pagini	Candidatul trebuie sa fie autor principal (autor unic sau primul autor) al manualului. Pentru formatul electronic calitatea de autor principal este certificată de conducerea departamentului	<b>8,68</b>
<b>DID-LAB</b>	Standuri/laboratoare pentru activități didactice realizate / dezvoltate de candidat, cu lucrări de laborator elaborate de candidat și incluse în îndrumător laborator format tipărit sau format electronic	1 punct = 1 lucrare de laborator cu infrastructură realizată/dezvoltată de candidat	Pentru standurile sau laboratoarele didactice, calitatea de dezvoltator este certificată de conducerea departamentului	<b>13,00</b>
Standard minimal profesor universitar / abilitare		<b>10 puncte</b>		<b>21,68</b>

### Criteriul DID-MSC

	Denumire	nr. pag.	Punctaj
1.	<b>Butnariu S.,</b> <i>Analysis of mechanical structures using finite element method, lecture notes</i> , ISBN 978-606-19-0311-5 (CD), Ed. Universitatii Transilvania din Brasov, 2013.	184	3,68
2.	<b>Butnariu, S.,</b> <i>VR technologies for scanning, 3D reconstruction and tracking -lecture notes-</i> , suport de curs, CD, ISBN: 978-973-131-340-5, Ed. Lux Libris, 2016	250	5,00
<b>TOTAL DID-MSC</b>			<b>8,68</b>

### Criteriul DID-LAB

	Denumire	Punctaj
1.	Mogan, Gh., Butnariu, S., <i>Analiza cu elemente finite. Aplicatii in CATIA</i> , Ed. Universității Transilvania, ISBN 978-973-598-159-4, 2007. <a href="http://toread.utcb.ro/opac/bibliographic_view/3130;jsessionid=585428D5BCE284F2CBED39CF92182A3C">http://toread.utcb.ro/opac/bibliographic_view/3130;jsessionid=585428D5BCE284F2CBED39CF92182A3C</a>	
1.1	Analiza statică liniară a elementelor de tip captor tensometric <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_01.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_01.pdf</a>	1
1.2	Analiza statică liniară a elementelor elastice metalice din tablă <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_02.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_02.pdf</a>	1
1.3	Analiza statică liniară a elementelor elastice metalice din sârmă <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_03.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_03.pdf</a>	1
1.4	Analiza statică liniară a elementelor elastice nemetalice <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_04.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_04.pdf</a>	1
1.5	Analiza statică liniară a structurilor din bare <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_05.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_05.pdf</a>	1
1.6	Analiza statică a elementelor componente ale structurilor mecanice de susținere asamblate <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_06.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_06.pdf</a>	1
1.7	Analiza statică a structurilor mecanice de susținere asamblate <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_07.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/Aplicatia_07.pdf</a>	1

2	Butnariu, S., Mogan, Gh., <i>Analiza cu elemente finite în ingineria mecanică.. Aplicații practice în ANSYS</i> , Ed. Universității Transilvania, ISBN 978-606-19-0474-7 (print), 2014 <a href="http://www.unitbv.ro/press/Inpress.aspx">http://www.unitbv.ro/press/Inpress.aspx</a>	
2.1	Arcuri elicoidale solicitate la compresiune <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_11_Arcuri_elicoidale_solicitate_la_comprimare.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_11_Arcuri_elicoidale_solicitate_la_comprimare.pdf</a>	1
2.2	Arcuri elicoidale solicitate la torsiune <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_12_Arcuri_elicoidale_solicitate_la_torsiune.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_12_Arcuri_elicoidale_solicitate_la_torsiune.pdf</a>	1
2.3	Elemente elastice nemetalice <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_13_Elemente_elastice_nemetalice.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_13_Elemente_elastice_nemetalice.pdf</a>	1
2.4	Analiza statică a structurilor din bare <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_14_Analiza_statica_a_structurilor_din_bare.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_14_Analiza_statica_a_structurilor_din_bare.pdf</a>	1
2.5	Vibrațiile și frecvențele proprii ale structurilor din bare <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_15_Vibratii_proprii.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_15_Vibratii_proprii.pdf</a>	1
2.6	Analiza statică a mecanismelor cu bare <a href="http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_16_Analiza_statica_a_mecanismelor_cu_bare.pdf">http://portal.unitbv.ro/Portals/0/UserFiles/User296/AEF-A_16_Analiza_statica_a_mecanismelor_cu_bare.pdf</a>	1
	<b>TOTAL DID-LAB</b>	<b>13</b>

## Criteriul RIA - Recunoașterea și impactul activității

Indicatori RIA	Descriere	Punctaj	Observații	Punctaj
RIA-GRA	Director sau responsabil partener grant internațional	1 punct = 10000 EUR	<ul style="list-style-type: none"> <li>· Calitatea de director sau responsabil partener este certificată de reprezentantul legal al instituției în cadrul căreia a fost derulat grantul sau contractual</li> <li>· Sunt luate în considerare sumele încasate exclusiv de instituția în care a fost derulat grantul (la proiectele tip consorțiu se consideră suma alocată instituției)</li> </ul>	<b>22,500</b>
	Director sau responsabil partener grant național	1 punct = 50000 RON		<b>27,334</b>
RIA-CTR	Director contract cu beneficiar din mediul economic internațional	1 punct = 2000 EUR	Punctajul pentru sumele prevăzute la RIA-GRA și RIA-CTR este de 0.25 puncte pentru membru în echipă, în loc de 1 punct pentru director / responsabil partener	<b>0</b>
	Director contract cu beneficiar din mediul economic național	1 punct = 10000 RON		<b>0</b>
Standard minimal profesor universitar / abilitare		<b>10 puncte</b>		<b>49,834</b>

### Criteriul RIA-GRA

Nr. crt.	Denumire proiect	Funcția în proiect	Valoare proiect / partener	Punctaj
1.	<i>SPINE - Sistem de diagnosticare și terapie a afecțiunilor coloanei vertebrale, perioada: 2014-2017 Parteneriate 2013, finanțator: UEFISCDI Cod proiect: PN-II-PT-PCCA-2013-4-1596 – Nr contractului: 227/2014 (coordonator UTBv)</i>	<i>Director proiect</i>	<i>590.504 lei</i>	<i>11,81</i>
2.	<i>Brahiterapia asistată robotic, o abordare inovativă în terapia cancerelor inoperabile, perioada:2012-2016 finanțator: PCCA Tip 2, UEFISCDI, Nr. Contract:173/2012 (coordonator UT Cluj)</i>	<i>Responsabil partener</i>	<i>300.000 lei</i>	<i>6</i>
3.	<i>Nou sistem haptic de tip exoschelet pentru robotică și automată spațială – EXORAS 13/2012 (coordonator UT Cluj) Cercetare - Agentia Spatiala Romana (ROSA) 2012, perioada 2012 - 2015</i>	<i>Responsabil partener</i>	<i>174.000 lei</i>	<i>3,49</i>
4.	<i>Virtual Reality in Product Design and Robotics (VEGA), perioada:2005-2008 finanțator: Comisia Europeana, activitate 1 an / 3 ani, buget 1/3 Nr Contract: FP6 - SSA Project AC, 16565</i>	<i>Membru / 1 an</i>	<i>900.000 euro</i>	<i>7,5</i>
5.	<i>VIRPE - realitate virtuala pentru ingineria produsului, perioada: 2006-2009, finanțator: CEEX M2, Nr Contract:II-5920/2006</i>	<i>Membru / 1 an</i>	<i>487.952 lei</i>	<i>0,813</i>
6.	<i>A network for rapid and sustainable ICT regional adoption INTERREG IVC, DigitalCities, <a href="http://www.digital-cities.eu/">http://www.digital-cities.eu/</a> , perioada: 2009-2012, finanțator:Comisia Europeana, INTERREG IVC, Nr. Contract:0299R</i>	<i>membru</i>	<i>180.000 eur</i>	<i>4,50</i>
7.	<i>ROBOCORE - Biopsia prostatei asistata robotic, o metoda inovativa de mare precizie, perioada: 2014-2017 finanțator: UEFISCDI, Parteneriate 2013, <a href="http://cester.utcluj.ro/robocore/index.html">http://cester.utcluj.ro/robocore/index.html</a>, Contract 247 / 2014</i>	<i>membru</i>	<i>150.000 lei</i>	<i>0,75</i>
8.	<i>NaviEyes - Intelligent Driver Assistant for Smartphones perioada: 2014-2017 finanțator: UEFISCDI Nr. Contract:240 din 01/07/2014 (PN-II-PT-PCCA-2013-4-2023) Parteneriate 2013</i>	<i>membru</i>	<i>894.250 lei</i>	<i>4,471</i>
9.	<i>eHeritage - Expanding the Research and Innovation Capacity in Cultural Heritage Virtual Reality Applications, Horizon 2020 – Twinning, perioada 2015-2018.</i>	<i>membru</i>	<i>420.000 eur</i>	<i>10,5</i>
	<b>TOTAL</b>			<b>49,834</b>