

## FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE NAȚIONALE

Notă: Dovezile fiecărei poziții sunt fie prezentate printr-un link extern, fie anexate prezentului document.

Domeniul de activitate		Indicatori	Descriere	Conf	Obținut
Activitatea didactică / profesională (A1)	A1.1	N1	Manuale suport de curs	2	3
		N1.1	Manuale suport de curs prim autor	-	1
		N1.3	Manuale suport de curs în format electronic pe platforma universității	1	2
	A1.2	N2	Material didactic	3	4
		N2.1	Standuri laborator	1	2
Activitatea de cercetare (A2)	A2.1 + A2.3	P1 + P2	Articole și publicații indexate ISI+Brevete	5	11,916
		P1	Articole și publicații indexate ISI	3	8,616
	A2.2	N3	Articole și publicații BDI neincluse la P1	8	12
		N3.1	Articole și publicații BDI neincluse la P1, ca prim autor	3	5
	A2.4 + A2.5	N4	Monografii / cărți	1	2
		N4.3	Monografii / cărți ca prim autor	0	1
Recunoașterea impactului activității (A3)	A3.1	S1 + S2	Granturi	10	20,86
	A3.2	N5	Prezentarea / diseminarea rezultatelor	5	14
	A3.3	C	Citări	10	79,99

$$P1 = P1.1 + P1.2 + P1.3 + P1.4$$

$$P2 = P2.1 + P2.2$$

$$N1 = N1.1 + N1.2$$

$$N2 = N2.1 + N2.2 + N2.3$$

$$N3 = N3.1 + N3.2$$

$$N4 = N4.1 + N4.2 + N4.3 + N4.4$$

A1 – Activitatea didactică și profesională – DID		Punctaj
<b>N1.1 Manuale suport de curs ca prim autor</b>		
G. Macesanu, T.T. Cociaș și S.M. Grigorescu, „Sisteme încorporate: fundamentele utilizării sistemelor cu microcontrolere”, Suport de curs pentru disciplinele ”Sisteme cu Microcontrolere” și ”Arhitectura calculatoarelor”, Editura Universității Transilvania, 2019, ISBN 978-606-19-1168-4		1
<b>Total N1.1</b>		1
<b>N1.2 Manuale suport de curs ca si co-autor</b>		
D. Floroian, G. Macesanu, „Programarea și utilizarea sistemelor cu microprocesoare”, 2014, Ed. Universitatii Transilvania din Brasov, ISBN: 978-606-19-0485-3		1
<b>N1.3 Manuale suport de curs (format electronic disponibil pe platforma universității)</b>		
G.Macesanu, „Introduction to Robotics”, <a href="http://rovislab.com/course_introduction_to_robotics.html">http://rovislab.com/course_introduction_to_robotics.html</a>		1
G.Macesanu, „Numerical Methods”, <a href="http://rovislab.com/course_numerical_methods.html">http://rovislab.com/course_numerical_methods.html</a>		1
<b>Total N1.3</b>		2
<b>Total N1</b>		4
<b>N2.1 Standuri laborator certificate de directorul de departament</b>		
G. Macesanu, Platformă de e-learning bazată pe ROS pentru controlul roboților. Utilizat la disciplina Bazele Roboticii		1
G. Macesanu, Platformă de simulare pentru roboți bazată pe Gazebo, Utilizată la disciplina Bazele Roboticii și Sisteme cu Microcontrolere.		1
<b>Total N2.1</b>		2
<b>N2.2 Îndrumar laborator / carte aplicații format tipărit sau electronic (autor, co-autor)</b>		



S.M. Grigorescu, <b>G. Macesanu</b> și T.T. Cocias, <i>Sisteme de vedere artificială utilizând OpenCV 3. Îndrumar de laborator</i> . Set de lucrări practice privind procesarea de imagini și vederea artificială 3D pentru disciplinele "Sisteme de vedere artificială", "Sisteme de reglare în vederea artificială" și "Procesarea imaginilor, imagistică medicală și vedere artificială.". Editura Universității Transilvania, 2016.	1
S.M. Grigorescu, <b>G. Macesanu</b> și T.T. Cocias, <i>Sisteme de vedere artificială. Îndrumar de laborator</i> . Set de lucrări practice privind procesarea de imagini și vederea artificială 3D pentru disciplinele "Sisteme de vedere artificială", "Sisteme de reglare în vederea artificială" și "Procesarea imaginilor, imagistică medicală și vedere artificială.". Editura Universității Transilvania, ISBN 978-606-19-0240-8, 2013.	1
<b>N2.3 Aplicație informatică educațională</b>	
<b>G. Macesanu</b> Administrator și co-fondator al platformei ROVIS (Robotics, Vision and Control Laboratory) rovis.unitbv.ro	1
<b>Total N2</b>	4

<b>A2 – Activitatea de cercetare științifică, dezvoltare tehnologică și inovare – CDI</b>		
<b>P1.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca prim autor (număr de autori ≤ 3)</b>	<b>Factor de impact</b>	<b>Punctaj</b>
<b>P1.2 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca prim autor (număr de autori ≥ 4)</b>	<b>Factor de impact</b>	<b>Punctaj</b>
<b>G. Măceșanu, V. Comnac, F. Moldoveanu and S.M. Grigorescu, "A Time-Delay Control Approach for a Stereo Vision Based Human-Machine Interaction System", <i>Journal of Intelligent &amp; Robotic Systems</i>, Springer Netherlands, DOI: 10.1007/s10846-013-9994-4, ISSN 0921-0296, 2013. <a href="http://link.springer.com/article/10.1007%2Fs10846-013-9994-4">http://link.springer.com/article/10.1007%2Fs10846-013-9994-4</a></b>	2,020	3,33
<b>P1.3 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca și co-autor (număr de autori ≤ 3)</b>	<b>Factor de impact</b>	<b>Punctaj</b>
<b>P1.4 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca și co-autor (număr de autori ≥ 4)</b>	<b>Factor de impact</b>	<b>Punctaj</b>
<b>S.M. Grigorescu, B.Trasnea, T.T. Cocias and <b>G. Macesanu</b>, "A Survey of Deep Learning Techniques for Autonomous Driving", <i>Journal Of Field Robotics</i>, DOI: 10.1002/rob.21918, 2019 <a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/rob.21918">https://onlinelibrary.wiley.com/doi/abs/10.1002/rob.21918</a></b>	4,345	3,409
<b>S.M. Grigorescu, <b>G. Macesanu</b>, T.T. Cocias, D. Puiu and F. Moldoveanu, "Robust Camera Pose and Scene Structure Analysis for Service Robotics", <i>Robotics and Autonomous Systems</i>, Elsevier, DOI: 10.1016/j.robot.2011.07.005, ISSN: 0921-8890, 2011. <a href="http://www.sciencedirect.com/science/article/pii/S0921889011001266">http://www.sciencedirect.com/science/article/pii/S0921889011001266</a></b>	2,928	1,877
<b>Total P1</b>		8,616
<b>N3.1 Articole și publicații științifice BDI, neincluse la P1, ca prim autor</b>		<b>Punctaj</b>
<b><b>G. Macesanu, T. Cocias, C. Suliman and B. Tarnauca, „Development of GTBoT, a High Performance and Modular Indoor Robot,” <i>Proc. of the 2010 IEEE Inter. Conf. on Automation, Quality and Testing Robotics</i>, Cluj-Napoca, Romania, 2010, pp. 343–348, doi: 10.1109/AQTR.2010.5520859, ISBN: 978-1-4244-6722-8, <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5520859&amp;isnumber=5520854">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5520859&amp;isnumber=5520854</a>.</b></b>		1
<b><b>G. Macesanu, S. Grigorescu and V. Comnac, „Time-delay Analysis of a Robotic Stereo Active Vision System,” <i>Proc. of the 15<sup>th</sup> Inter. Conf. on System Theory, Control and Computing</i>, Sinaia, Romania, 2011, pp. 1–6, ISBN: 9781457711732 <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6085690&amp;isnumber=6085648">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6085690&amp;isnumber=6085648</a>.</b></b>		1
<b><b>G. Macesanu, S. Grigorescu, J. F. Ferreira, J. Dias and F. Moldoveanu, „Real Time Facial Features Tracking Using an Active Vision System,” <i>Proc. of the 13<sup>th</sup> Inter. Conf. on Optimization of Electrical and Electronic Equipment</i>, Brasov, Romania, 2012, pp. 1493–1498, doi: 10.1109/OPTIM.2012.6231866, ISSN 1842-0133, <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6231866&amp;isnumber=6231751">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6231866&amp;isnumber=6231751</a></b></b>		1
<b><b>G. Măceșanu, S.M. Grigorescu, T.T. Cocias and F. Moldoveanu, "An Object Detection and 3D Reconstruction Approach for Real-time Scene Understanding", <i>Bulletin of the Transilvania University of Brașov, Series I: Engineering Sciences, Electrical Engineering, Electronics and Automation</i>, ISSN 2065-2119, 2011. <a href="http://webbut.unitbv.ro/bu2011/Series%20I/BULETIN%20I%20PDF/Macesanu%20G.pdf">http://webbut.unitbv.ro/bu2011/Series%20I/BULETIN%20I%20PDF/Macesanu%20G.pdf</a></b></b>		1
<b><b>G. Măceșanu, S.M. Grigorescu and F. Moldoveanu, "A PTZ Stereo Camera Vision System for Robotic Perception", <i>International Journal of Mechanics and Control</i>, Vol. 13, No. 01, ISSN 1590-8844, 2012.</b></b>		1



<a href="https://www.scopus.com/authid/detail.uri?authorId=36601194600">https://www.scopus.com/authid/detail.uri?authorId=36601194600</a>	5
<b>Total N3.1</b>	<b>Punctaj</b>
<b>N3.2 Articole și publicații științifice BDI, neincluse la P1, ca și co-autor</b>	
S.M. Grigorescu and G. Măceșanu, "Human-Robot Interaction through Robust Gaze Following", Book series: <i>Information Technology and Computational Physics. Advances in Intelligent Systems and Computing</i> , Springer, vol. 462, ISBN 978-3-319-44259-4, pp 165-178, <a href="https://www.springer.com/br/book/9783319442594">https://www.springer.com/br/book/9783319442594</a> , 2017.	1
B. Trăsnea, G. Măceșanu, S.M. Grigorescu and T. Cociaș, "Smartphone Based Mass Traffic Sign Recognition for Real-time Navigation Maps Enhancement," <i>Proceedings of the Int. Conf. on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 25-27 May 2017	1
S. Grigorescu, T. Cocias, G. Macesanu and F. Moldoveanu, „Stereo Vision-based 3D Camera Pose and Object Structure Estimation – An Application to Service Robotics,” <i>Proc. of the Inter. Joint Conf. on Computer Vision, Imaging and Computer Graphics Theory and Applications</i> , Rome, Italy, 2012, pp. 355–358, ISBN: 978-989-8565-03-7, <a href="https://www.scopus.com/authid/detail.uri?authorId=36601194600">https://www.scopus.com/authid/detail.uri?authorId=36601194600</a>	1
S. Grigorescu, G. Macesanu, „Human-Robot Interaction Through Robust Gaze Following”, <i>Congress on Information Technology, Computational and Experimental Physics</i> , Kraków, Poland, 18-20 Dec 2016, pp. 165-178. 10.1007/978-3-319-44260-0 10/978-3-319-44259-4	1
S. Grigorescu, G. Macesanu, T. Cocias and F. Moldoveanu, „On the Real-time Modelling of a Robotic Scene Perception and Estimation System,” <i>Proc. of the 15<sup>th</sup> Inter. Conf. on System Theory, Control and Computing</i> , Sinaia, Romania, 2011, pp. 273–276, ISSN: 2068-0465, <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6085662&amp;isnumber=6085648">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6085662&amp;isnumber=6085648</a>	1
C. Suliman, C. Cruceru, G. Macesanu and F. Moldoveanu, „Person Tracking in Video Surveillance Systems Using Kalman Filtering,” <i>Proc. of the 14<sup>th</sup> Inter. Conf. on System, Theory and Control</i> , Sinaia, Romania, 2010, pp. 550–555, ISSN: 2068-0465, <a href="https://www.scopus.com/authid/detail.uri?authorId=36601194600">https://www.scopus.com/authid/detail.uri?authorId=36601194600</a>	1
T.T. Cociaș, G. Măceșanu, and F. Moldoveanu, “On The Application Of Voronoi Diagrams And Delaunay Triangulation To 3d Reconstruction”, <i>Bulletin of the Transilvania University of Braşov, Series I: Engineering Sciences, Electrical Engineering, Electronics and Automation</i> , ISSN 2065-2119, 2011. <a href="http://webbut.unitbv.ro/BU2011/Series%20I/BULETIN%20I%20PDF/Cocias%20TT.pdf">http://webbut.unitbv.ro/BU2011/Series%20I/BULETIN%20I%20PDF/Cocias%20TT.pdf</a>	1
<b>Total N3</b>	<b>12</b>
<b>P2.1 Brevete de inventie internationale – autor principal, mai mult de 4 autori</b>	<b>Punctaj</b>
S. Grigorescu, G. Macesanu, T. Cocias, B. Bogdan, C. Cosmin, <i>Generating Training Images for Machine Learning-based Object Recognition System</i> , EP3343432A1 2018	3,3
<b>Total P2</b>	<b>3,3</b>
<b>N4.2 Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare), în calitate de co-autor</b>	
S.M. Grigorescu, G. Măceșanu, T.T. Cociaș, L. Marina, B. Trăsnea, C. Ginerică, C. Pozna, “RovisLaboratory”, Platformă web inovativă ce prezintă realizările obținute în domeniul cercetării precum și serviciile inovative pe care grupul de cercetare le poate oferi operatorilor din industrie. Dovadă atașată. <a href="http://rovislab.com/research.html">http://rovislab.com/research.html</a>	1
<b>N4.3 Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pag.) ca prim autor</b>	<b>Punctaj</b>
G. Macesanu, S.M. Grigorescu și F. Moldoveanu, <i>Controlul sistemelor de vedere activă în interacțiunea om-mașină</i> , Editura Universității Transilvania, 2013. <a href="http://www.unitbv.ro/press/Publications2013/Subjectareas/Engineeringosciences.aspx">http://www.unitbv.ro/press/Publications2013/Subjectareas/Engineeringosciences.aspx</a>	1
<b>Total N4.3</b>	<b>1</b>
<b>Total N4</b>	<b>2</b>

<b>A3 – Recunoașterea și impactul activității – RIA</b>	
<b>S1 Atragerea resurse financiare prin granturi/proiecte/contracte cu terți. Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională.</b>	<b>Sumă echivalentă în mii Euro</b>
Contr. Nr. 13866 / 30.10.2019 – „Sistem inteligent de recunoaștere facială pentru facilitarea accesului în zone rezidențiale”. Beneficiar: Universitatea Transilvania din Braşov (valoare 50.632 RON = 10.643 EUR). Finanțator: S.C. RG Design SRL.	10,64
<b>S2 Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională</b>	<b>Sumă echivalentă în mii Euro</b>
Contr. Nr. 6885 / 26.06.2019 – “Sistem Inteligent de tip HMI (Human Machine Interface) pentru Controlul prin Gesturi”. Beneficiar: Universitatea Transilvania din Braşov (valoare 48.626 RON = 10.222 EUR). Finanțator: S.C. Creature Promotion S.R.L.	10,22
<b>Total S1+S2</b>	<b>244,485</b>



<b>N5 Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat</b>		<b>Punctaj</b>
Participation at the 11th edition of the European Robotics Forum 2020 in Málaga, Spain		1
G. Măceșanu, S.M. Grigorescu and V. Comnac, "Time-delay Analysis of a Robotic Stereo Active Vision System", <i>15th Int. Conf. On System Theory, Control and Computing ICSTCC 2011</i> , Sinaia, Romania, October 14-16, 2011. <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6085690&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6085690">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6085690&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6085690</a>		1
B. Trăsnea, G. Măceșanu, S.M. Grigorescu and T. Cociaș, "Smartphone Based Mass Traffic Sign Recognition for Real-time Navigation Maps Enhancement," <i>Proceedings of the Int. Conf. on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 25-27 May 2017		1
G. Măceșanu, S.M. Grigorescu and F. Moldoveanu, "An Active Stereo Vision Control System Based on PTZ Cameras for Robust Robotic Perception", <i>20th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD 2011</i> , Brno, Czech Republic, October 5-7, 2011. <a href="http://www.mmscience.eu/content/file/RAAD_obsah_sbornik_edit_ZZ.pdf">http://www.mmscience.eu/content/file/RAAD_obsah_sbornik_edit_ZZ.pdf</a>		1
S.M. Grigorescu and G. Măceșanu, "Human-Robot Interaction through Robust Gaze Following," <i>Congress on Information Technology, Computational and Experimental Physics CITCEP 2016</i> , Cracow, Poland, December 18-20, 2016. <a href="http://www.fis.agh.edu.pl/Conf-ITCEP/wp-content/uploads/CITCEP-2015-program-detailed.pdf">http://www.fis.agh.edu.pl/Conf-ITCEP/wp-content/uploads/CITCEP-2015-program-detailed.pdf</a>		1
S.M. Grigorescu, T.T. Cocias, G. Măceșanu and F. Moldoveanu, "Stereo Vision-Based 3D Camera Pose and Object Structure Estimation: An Application to Service Robotics", <i>7th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications</i> , 24-26 February, Rome, Italy, 2012. <a href="http://www.scitepress.org/DigitalLibrary/PublicationsDetail.aspx?ID=v7kUV0W7Q5E=&amp;t=1">http://www.scitepress.org/DigitalLibrary/PublicationsDetail.aspx?ID=v7kUV0W7Q5E=&amp;t=1</a>		1
G. Măcesanu, S.M. Grigorescu and F. Moldoveanu, "On Facial Features Tracking using an Active Stereo Camera Control Approach", <i>Fifth Győr Symposium &amp; First Hungarian-Polish Joint Conference On Computational Intelligence</i> , Győr, Ungaria, 2012.		1
S.M. Grigorescu, G. Măcesanu, T.T. Cocias and F. Moldoveanu, "On the Real-time Modelling of a Robotic Scene Perception and Estimation System", <i>15th Int. Conf. On System Theory, Control and Computing ICSTCC 2011</i> , Sinaia, Romania, October 14-16, 2011. <a href="http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6085662&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6085662">http://ieeexplore.ieee.org/xpl/login.jsp?tp=&amp;arnumber=6085662&amp;url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6085662</a>		1
G. Măcesanu, S. Grigorescu, J. F. Ferreira, J. Dias and F. Moldoveanu, "Real Time Facial Features Tracking Using an Active Vision System," <i>Proc. of the 13th Inter. Conf. on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 2012, pp. 1493–1498, doi: 10.1109/OPTIM.2012.6231866, ISSN 1842-0133, <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6231866&amp;isnumber=6231751">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=6231866&amp;isnumber=6231751</a>		1
G. Măcesanu, T. Cocias, C. Suliman and B. Tarnauca, "Development of GTBoT, a High Performance and Modular Indoor Robot," <i>Proc. of the 2010 IEEE Inter. Conf. on Automation, Quality and Testing Robotics</i> , Cluj-Napoca, Romania, 2010, pp. 343–348, doi: 10.1109/AQTR.2010.5520859, ISBN: 978-1-4244-6722-8, <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5520859&amp;isnumber=5520854">http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&amp;arnumber=5520859&amp;isnumber=5520854</a> .		1
G. Măcesanu, J. F. Ferreira and J. Dias, "A Bayesian Hierarchy for Gaze Following," <i>Proc. of the 5th Inter. Conf. on Cognitive Systems</i> , TU Vienna, Austria, 2012, pp. 525–528		1
C. Suliman, C. Cruceanu, G. Măcesanu and F. Moldoveanu, "Person Tracking in Video Surveillance Systems Using Kalman Filtering," <i>Proc. of the 14th Inter. Conf. on System, Theory and Control</i> , Sinaia, Romania, 2010, pp. 550–555, ISSN: 2068-0465.		1
G. Măcesanu, T. Cocias and F. Moldoveanu, "Stability Analysis of an Active Vision System," <i>Proc. of the 6th Inter. Conf. on Interdisciplinary in Education</i> , Karabuk, Turkey, 2011, pp. 226–231, ISSN 1790-661X.		1
Participarea ca invitat la Universitatea din Coimbra, Portugalia, în cadrul "Institute of Systems and Robotics", 2011 în cadrul proiectului POSDRU: ID 59321		1
<b>Total N5</b>		<b>14</b>
<b>C Citări în cărți, reviste și volume ale unor manifestări științifice - cărți, ISI</b>	<b>Factor de impact</b>	<b>Punctaj</b>
Citări ale articolului: S.M. Grigorescu, G. Măcesanu, T.T. Cocias, D. Puiu and F. Moldoveanu, "Robust Camera Pose and Scene Structure Analysis for Service Robotics", <i>Robotics and Autonomous Systems</i> , Elsevier, DOI: 10.1016/j.robot.2011.07.005, ISSN: 0921-8890, 2011.		
Xiang Gao, Tao Zhang, "Robust RGB-D simultaneous localization and mapping using planar point features," <i>Robotics and Autonomous Systems</i> , Elsevier, Volume 72, ISSN 0921-8890, Pages 1-14, October 2015.	2,928	3,928
Gao, Ming-Liang; He, Xiao-Hai; Luo, Dai-Sheng; Jiang, Jun; Teng, Qi-Zhi: "Object tracking using firefly algorithm," <i>IET Computer Vision</i> , 7, (4), p. 227-237, 2013.	1,648	2,648



Z Boukhers, K Shirahama, M Grzegorzec, „Less restrictive camera odometry estimation from monocular camera,” <i>Multimedia Tools and Applications</i> , 2017.	1,530	2,530
Qu, Zhiyong; Han, Jun Wei: “Pose measurement for fighter empennage based on string sensors,” <i>IET Science, Measurement &amp; Technology</i> , 7, (1), p. 41-49, 2013.	1,285	2,285
Jesus Martínez-Gómez, Antonio Fernández-Caballero, Ismael García-Varea, Luis Rodríguez and Cristina Romero-González, „A Taxonomy of Vision Systems for Ground Mobile Robots,” <i>International Journal of Advanced Robotic Systems</i> , InTech, ISSN 1729-8806, July 29, 2014.	1.223	2,223
Gao M, He X, Luo D, Yu Y, “Object tracking based on harmony search: comparative study,” <i>Journal of Electronic Imaging</i> , doi:10.1117/1.JEI.21.4.043001, October 2012.	0,900	1,900
Masoud Samadi, Mohd Fauzi Othman, Muhamad Farihin Talib, “Fast and Robust Stereo Matching Algorithm for Obstacle Detection in Robotic Vision Systems,” <i>Journal Technology (Sciences &amp; Engineering)</i> , 78: 6–13 2016.	0,430	1,430
W Xie, J Wei, Z Chen, T Li, “Particle Filter Target Tracking Algorithm Based on Dynamic Niche Genetic Algorithm,” <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017.	0,400	1,400
S., Masoud and O., MohdFauzi, “Stereo vision based robots: Fast and robust obstacle detection method”, <i>2013 9th Asian Control Conference (ASCC)</i> , 23-26 June 2013	-	1
L Cheng, W Junping, Z Zhaohui, B Xu, „SLAM for Planar Mobile Robot”, <i>2018 2nd IEEE Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC)</i> , 25-27 May 2018	-	1
Samadi, Masoud and Othman, MohdFauzi, “A New Fast and Robust Stereo Matching Algorithm for Robotic Systems,” <i>Advances in Intelligent Systems and Computing</i> , Springer Berlin Heidelberg, vol. 209, pp. 281-290, 2013.	-	1
Schmitt, Robert and Cai, Yu and Jatzkowski, Philipp, “Estimation of the absolute camera pose for environment recognition of industrial robotics,” <i>Production Engineering</i> , Springer-Verlag, vol. 7, no. 1, pp. 91-100, 2013.	-	1
M Samadi, “Modified stereo vision method for an unmanned ground vehicle”, <i>PhD thesis</i> , Universiti Teknologi Malaysia, 2014	-	1
A Fernández Caballero, C Romero González, “A taxonomy of vision systems for ground mobile robots”, <i>RUIDeRA</i> , 2014	-	1
Yuxing Han, Yasushi Sumi, Yoshio Matsumoto, Noriaki Ando, “Acquisition of Object Pose from Barcode for Robot Manipulation,” <i>Simulation, Modeling, and Programming for Autonomous Robots, Lecture Notes in Computer Science</i> , Springer Berlin Heidelberg Volume 7628, 2012, pp 299-310.	-	1
Y Liu, X Li, M Wang, G Chen, Z Song, „A Novel Method for the Absolute Pose Problem with Pairwise Constraints“, <i>Computer Vision and Pattern Recognition</i> , 2019 <a href="https://arxiv.org/abs/1903.10175">https://arxiv.org/abs/1903.10175</a>	-	1
S Liang, Q Zhu, Z Wang, “Research and Application of 3D Map Modelling for Indoor Environment Based on Siftgpu,” <i>IEEE 2nd International Conference on Multimedia</i> , 2017.	-	1
Chessa, Manuela; Murgia, Saverio; Nardelli, Luca; Sabatini, Silvio P.; Solari, Fabio, „Bio-inspired active vision for obstacle avoidance,” <i>2014 International Conference on Computer Graphics Theory and Applications (GRAPP)</i> , pp.1-8, 5-8 Jan. 2014.	-	1
S Li, S Qin, „An effective approach to SLAM toward autonomous operation for a Leg/Arm composite mobile robot in unknown environment based on RGB-D images”, <i>17 Chinese Automation Congress (CAC)</i> , 2017	-	1
S Liang, Q Zhu, Z Wang, „Research and Application of 3D Map Modelling for Indoor Environment Based on Siftgpu”, <i>2017 2nd International Conference on Multimedia and Image Processing (ICMIP)</i> , 25 December 2017	-	1
Citări ale articolului: G. Măceșanu, T.T. Cociaș, C. Suliman, B. Tarnaucă, “Development of GTBoT, a High Performance and Modular Indoor Robot,” <i>Proc. of the 2010 IEEE-TTTC Inter. Conf. on Automation, Quality and Testing, Robotics – AQTR 2010, Cluj-Napoca, Romania</i> , 28+30 May, 2010, pp. 343-348, ISBN: 978-1-4244-6722-8		
N Hoque, DK Bhattacharyya, „Botnet in DDoS attacks: trends and challenges”, <i>IEEE Communications Surveys &amp; Tutorials ( Volume: 17 , Issue: 4 , Fourthquarter 2015 )</i>	20.230	21,230
SSC Silva, RMP Silva, RCG Pinto, RM Salles, “Botnets: A survey”, <i>Computer Networks</i> , Volume 57, Issue 2, 4 February 2013, Pages 378-403.	3.03	4,03
DK Bhattacharyya, JK Kalita, „DDoS attacks: evolution, detection, prevention, reaction, and tolerance”, <i>Content.taylorfrancis.com</i> , book, 2016	-	1
D Wu, B Fang, J Yin, F Zhang, „Slbot: A serverless botnet based on service flux“, <i>2018 IEEE Third International Conference on Data Science in Cyberspace (DSC)</i> , 18-21 June 2018	-	1
M Saad, MUU Rehman, J Jeffrey, TS John, CC Ming, „Preparation of Report for Autonomous Mechatronic Systems”, 2015	-	1



Citări ale articolului: <b>G. Măceșanu</b> , V. Comnac, F. Moldoveanu and S.M. Grigorescu, "A Time-Delay Control Approach for a Stereo Vision Based Human-Machine Interaction System", <i>Journal of Intelligent &amp; Robotic Systems</i> , Springer Netherlands, DOI: 10.1007/s10846-013-9994-4, ISSN 0921-0296, 2013.		
I. Chakraborty; S. S. Mehta; J. W. Curtis; W. E. Dixon, „Compensating for time-varying input and state delays inherent to image-based control systems,” <i>American Control Conference (ACC)</i> 2016.	-	1
S. Mohamed, D. Zhu, D. Goswami and T. Basten, „Optimising Quality-of-Control for Data-Intensive Multiprocessor Image-Based Control Systems Considering Workload Variations,” 2018 21st <i>Euromicro Conference on Digital System Design (DSD)</i> , Prague, 2018, pp. 320-327.	-	1
P Lanillos, JF Ferreira, J Dias, „A Bayesian hierarchy for robust gaze estimation in human-robot interaction”, <i>International Journal of Approximate Reasoning</i> , Elsevier, 2017.	1,982	2,982
I. Chakraborty; S. S. Mehta; E. Doucette; W. E. Dixon, „2.5D visual servo control in the presence of time-varying state and input delays,” <i>American Control Conference (ACC)</i> 2017.	-	1
I. Chakraborty; S. Obuz; W. E. Dixon, „Image-based tracking control in the presence of time-varying input and state delays,” <i>IEEE Conference on Control Applications (CCA)</i> 2016.	-	1
Jouh Yeong Chew, Daisuke Kurabayashi and Yudai Nakamura, „Echo state networks with Tikhonov regularization: optimization using integral gain,” <i>Advanced Robotics</i> , Taylor & Francis, Volume 29, Issue 12, 2015.	0,961	1,961
S. Mohamed, D. Goswami, T. Basten, „Bridging the controller design-implementation gap for image-based control systems”, <i>ICT.OPEN2019</i> , Hilversum, Netherlands, 2019	-	1
D. C. de Carvalho, „Development of a Facial Feature Detection and Tracking Framework for Robust Gaze Estimation”, Dissertation for MSc, 2019	-	1
Citări ale articolului: S.M. Grigorescu, T.T. Cocias, <b>G. Măceșanu</b> and F. Moldoveanu, “Stereo Vision-Based 3D Camera Pose and Object Structure Estimation: An Application to Service Robotics”, 7 <sup>th</sup> <i>International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications</i> , 24-26 February, Rome, Italy, 2012.		
E. Dumont, C. Constantin, A. Esse, A. Gréaux, and F. Techer, “Optimized Stereoscopic 3-D Object Reconstruction,” <i>International Journal of Information and Electronics Engineering</i> , Vol. 5, No. 1, January 2015.	-	1
Citări ale articolului: <b>G. Măceșanu</b> , S. Grigorescu and V. Comnac, „Time-delay Analysis of a Robotic Stereo Active Vision System,” <i>Proc. of the 15th Inter. Conf. on System Theory, Control and Computing</i> , Sinaia, Romania, 2011.		
D. D. Kumar, L. Mouli, M. Somajyoti, „Stable and Consistent Object Tracking: An Active Vision Approach”, book series <i>Advanced Computational and Communication Paradigms</i> , Springer, 2018.	-	1
Citări ale articolului: <b>G. Măceșanu</b> , S.M. Grigorescu, J.F. Ferreira, J. Dias and F. Moldoveanu, “Real Time Facial Features Tracking using an Active Vision System” 13 <sup>th</sup> <i>International Conference on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 24-26 May 2012, pp. 1493-1498.		
Jie Cao; Yang Cheng; Peng Wang; Yuxin Peng; Kaiyu Zhang; Leina Wu; Wenze Xia; Haoyong Yu, „Method based on bioinspired sample improves autofocusing performances,” <i>Optical Engineering</i> 55(10), 103103 (7 October 2016).	1,082	2,082
Jie Cao, Yang Cheng, Peng Wang, Kaiyu Zhang, Yuqing Xiao, Kun Li, Yuxin Peng, and Qun Hao, „Autofocusing imaging system based on laser ranging and a retina-like sample,” <i>Applied Optics</i> , Volume 56, Issue 22, 2017.	1,650	2,650
Citări ale articolului: S.M. Grigorescu, <b>G. Măceșanu</b> , T.T. Cocias and F. Moldoveanu, “On the Real-time Modelling of a Robotic Scene Perception and Estimation System”, 15 <sup>th</sup> <i>Int. Conf. On System Theory, Control and Computing ICSTCC 2011</i> , Sinaia, Romania, October 14-16, 2011.		
A Koubaa, S Trigui, I Chaari, „Indoor surveillance application using wireless robots and sensor networks: coordination and path planning,” <i>Mobile Ad Hoc Robots and Wireless Robotic Systems: Design and Implementation</i> , 2012.	-	1
Citări ale articolului: <b>G. Măceșanu</b> and F. Moldoveanu, „Computer Vision Based Mobile Robot Navigation in Unknown Environments,” <i>Bulletin of the Transilvania University of Brasov</i> , Vol. 3, No. 52, pp. 259–266, 2010		
Mohammad E. Ragab and Ghada F. Elkabbany, „A Parallel Implementation of Multiple Non-overlapping Cameras for Robot Pose Estimation,” <i>KSII Transactions on Internet and Information Systems</i> , vol. 8, no. 11, pp. 4103-4117, 2014.	0.711	1,711
Y. Boltov, I. Skarga-Bandurova, I. Kotsiuba, M. Hrushka, G. Krivoulya and R. Siriak, „Performance Evaluation of Real-Time System for Vision-Based Navigation of Small Autonomous Mobile Robots,” 10 <sup>th</sup> <i>International Conference on Dependable Systems, Services and Technologies (DESSERT)</i> , Leeds, United Kingdom, 2019, pp. 218-222.	-	1
<b>Total C</b>		<b>79,99</b>



Realizari aditionale, neincadrate in standardele de mai sus
<b>Premii in domeniu</b>
Locul 3 la concursul national de drone autonome „Cluj UAV contest”, organizat de Universitatea Tehnică din Cluj-Napoca, 2019
Organizator al școlii de vară de Robotică „ROVIS Summer School”, la care au participat 24 de studenți de la universități din străinătate și studenți de la Facultatea de IESC.
Participarea la workshop-ul „Programming an Embedded Application” organizat de compania Continental Automotive Systems Sibiu, 2008
Locul II la concursul „Conti Auto Tuning”, organizat de Continental Automotive Systems Sibiu, 2009
Participarea la concursul național de robotică „RobotX” 2009, organizat de Universitatea Politehnica din București, România
Locul unu la sesiunea de comunicări studențești cu proiectul <i>“Robot autonom pentru identificarea colectarea și transportul de obiecte”</i> , organizat în cadrul Departamentul de Automatică și Tehnologia Informației, Universitatea Transilvania din Brașov, România.
Locul doi la concursul național de robotică (RobotX) organizat de Universitatea Politehnica din București, România, 2008.
Participarea la concursul internațional de robotică “EuRobot” organizat de Eurobot Operating Group, Heidelberg, Germania, 2008.

Brașov, 25.02.2020

Avizat,

Prof.Dr.Ing. Sorin-Aurel MORARU  
Directorul departamentului ATI



Candidat

S.l. dr. ing Gigel Macesanu



Rezolutia Comisiei Științifice:

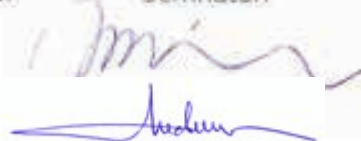
Membrii Comisiei Științifice:

- 1.Prof.dr. Hihai IVANOVICI
- 2.Prof.dr. Florin MOLDOVEANU
- 3.Prof.dr. Doru URSUTIU

Standardele sunt îndeplinite:

<input checked="" type="checkbox"/>	DA	<input type="checkbox"/>	NU
<input checked="" type="checkbox"/>	DA	<input type="checkbox"/>	NU
<input checked="" type="checkbox"/>	DA	<input type="checkbox"/>	NU

Semnături



DA D.Ursutiu