

Universitatea Transilvania din Braşov
Facultatea Inginerie Electrică şi Ştiinţa Calculatoarelor
Departamentul: Automatică şi Tehnologia Informaţiei

Poz. postului 6
Disciplinele postului: Vedere artificială;
Sisteme de vedere artificială

FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII
Postul: Profesor, poziţia 6,
publicat în Monitorul Oficial al României¹ nr. 306 din data de 15 aprilie 2020

Candidat: GRIGORESCU Sorin Mihai
Funcţia actuală: Conferenţiar universitar

Data naşterii: 22 martie 1982
Instituţia: Universitatea Transilvania din Braşov

1. Studii universitare (licenţă şi masterat)

Nr. crt.	Instituţia de învăţământ superior şi facultatea	Domeniul	Perioada	Titlul acordat
	Universitatea Transilvania din Braşov	Automatică şi Informatică Industrială	2000-2006	Inginer diplomat

2. Studii de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
	Universitatea Bremen, Germania	Ingineria sistemelor	2006-2010	Dr. Ing.

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

Nr. crt.	Instituţia	Domeniul/ Specializarea	Perioada	Tipul de bursă
	Universitatea Transilvania din Braşov	Ingineria sistemelor	2010-2013	Burse postdoctorale pentru dezvoltare durabilă POSTDOC-DD

4. Standarde minimale ale universităţii

Post didactic (se menţine în tabel numai postul pentru care se candidează)	Realizări conform standardelor proprii ale universităţii
Profesor	(i) Deţin Diplomă de Doctor în domeniu Ingineria Sistemelor, seria K Nr. 0001351 acordată în baza ordinului Ministrului Educaţiei Naţionale nr. 50006 din 14.10.2010 (ii) Îndeplinesc standardele minimale naţionale pentru ocuparea unui post didactic de profesor conform documentului: "07_Fisa de verificare a îndeplinirii standardelor minimale naţionale profesor", fişă ataşată la dosarul de candidatură (iii) Conform diplomei de inginer Seria F Nr. 0000533 acordată de Universitatea Transilvania din Braşov nota examenului de diplomă este 10 (zece). Conform suplimentului la diploma mai sus menţionată, media de promovare a anilor de studii este 9,10, fiind şef de promoţie al specializării Automatică, anul 2006. Astfel, media de absolvire a ciclului de licenţă este $(10 + 9,10) / 2 = 9,55$ (iv) Deţin calitatea de conducător de doctorat în domeniul

¹ Se completează numai în cazul posturilor pe perioadă nedeterminată.
F04-PS6.2-01/ed.3,rev.1

Avizat,
Prof.Dr.Ing. Sorin Aurel MORARU,
Director department Automatică și Tehnologia Informației
Facultatea de Inginerie Electrică și Știința Calculatoarelor
Universitatea Transilvania din Brașov



Candidat,
Conf. Dr.-Ing. Sorin Mihai GRIGORESCU



Rezoluția Comisiei științifice:

Membrii Comisiei științifice:

1. prof. dr. Mihai IVANOVICI
2. prof. dr. Florin HOLBOVEANU
3. prof. dr. Iuliu URSUTIU

Standardele sunt îndeplinite:

- | | |
|--|-----------------------------|
| <input checked="" type="checkbox"/> Da | <input type="checkbox"/> Nu |
| <input checked="" type="checkbox"/> Da | <input type="checkbox"/> Nu |
| <input type="checkbox"/> Da | <input type="checkbox"/> Nu |

DA D.Ursutiu

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE NAȚIONALE

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

Condiții minime pentru profesor/abilitare					
Domeniul de activitate		Indicatori	Descriere	Minim	Obținut
Activitatea didactică / profesională (A1)	A1.1	N1	Manuale suport de curs	2	3
		N1.1	Manuale suport de curs prim autor	1	1
		N1.3	Manuale suport de curs în format electronic pe platforma universității	1	1
	A1.2	N2	Material didactic	4	6
		N2.1	Standuri laborator	2	2
Activitatea de cercetare (A2)	A2.1 + A2.3	P1 + P2	Articole și publicații indexate ISI+Brevete	10	31,381
		P1	Articole și publicații indexate ISI	6	28,741
	A2.2	N3	Articole și publicații BDI neincluse la P1	10	36
		N3.1	Articole și publicații BDI neincluse la P1, ca prim autor	5	13
	A2.4 + A2.5	N4	Monografii / cărți	2	4
		N4.3	Monografii / cărți ca prim autor	1	2
Recunoaștere a impactului activității (A3)	A3.1	S1 + S2	Granturi	50	21.980,55
	A3.2	N5	Prezentarea / diseminarea rezultatelor.	10	25
	A3.3	C	Citări	25	255,618

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

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

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

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

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

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

A1 – Activitatea didactică și profesională – DID	
N1.1 Manuale suport de curs ca prim autor	Punctaj
S.M. Grigorescu și T.T. Cocias, <i>Sisteme de vedere artificială</i> . Suport de curs pentru disciplinele "Sisteme de vedere artificială," "Sisteme de reglare în vederea artificială" și "Procesarea imaginilor, imagistică medicală și vedere artificială." Editura Universității Transilvania, ISBN 978-606-19-0986-5, 2018.	1
Total N1.1	1
N1.2 Manuale suport de curs ca și co-autor	
G. Macesanu, T.T. Cocias, S.M. Grigorescu, <i>Sisteme incorporate: fundamentele utilizării sistemelor cu microcontrolere</i> , Editura Universității Transilvania, ISBN 978-606-19-1168-4, 2019.	1
G. Macesanu, S.M. Grigorescu și F. Moldoveanu, <i>Controlul sistemelor de vedere activă în interacțiunea om-mașină</i> . Suport de curs pentru disciplinele "Sisteme de vedere artificială," "Sisteme de reglare în vederea artificială" și "Procesarea imaginilor, imagistică medicală și vedere artificială." Editura Universității Transilvania, 2013. http://www.unitbv.ro/press/Publications2013/Subjectareas/EngineeringSciences.aspx	1
Total N1.2	2
N1.3 Manuale suport de curs (format electronic disponibil pe platforma universității)	
S.M. Grigorescu, G. Macesanu și T.T. Cocias, <i>Sisteme de vedere artificială</i> . Platformă electronică pentru	1

disciplinele "Sisteme de vedere artificială," "Sisteme de reglare în vederea artificială" și "Procesarea imaginilor, imagistică medicală și vedere artificială." http://rovis.unitbv.ro/course_computer_vision_systems.html	
Total N1.3	1
Total N1	2
N2.1 Standuri laborator certificate de directorul de departament	
S.M. Grigorescu Laborator de <i>Robotică și Inteligență Artificială</i> , Universitatea Transilvania din Brașov, Departamentul de Automatică și Tehnologia Informației, Corp V, Sala V III 15, 2018 Echiparea laboratorului de <i>Robotică și Inteligență Artificială</i> cu tehnică de calcul și echipamente de predare, în valoare de 29.577,95 RON.	1
S.M. Grigorescu , Cosmin Ginerică, Bogdan Trăsnea Tehnologie informatică pentru laboratorul virtual la disciplina „Recunoașterea Formelor” (Machine Learning), 2017. http://rovis.unitbv.ro/course_machine_learning.html	1
Total N2.1	2
N2.2 Îndrumar laborator / carte aplicații format tipărit sau electronic (autor, co-autor)	
S.M. Grigorescu and Cosmin Ginerică, <i>Recunoașterea Formelor, Îndrumar de laborator</i> . Set de lucrări practice privind procesarea statistică a datelor pentru disciplina „Recunoașterea Formelor”. Editura Universității Transilvania, ISBN 978-606-19-0894-3, 2017.	1
S.M. Grigorescu , G. Macesanu 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 , G. Macesanu 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
N2.3 Aplicație informatică educațională	
S.M. Grigorescu Fondatorul platformei ROVIS (<i>Robotics, Vision and Control Laboratory</i>) rovis.unitbv.ro	1
Total N2	6

A2 – Activitatea de cercetare științifică, dezvoltare tehnologică și inovare – CDI		
P1.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca prim autor (număr de autori ≤ 3)	Factor de impact	Punctaj
S.M. Grigorescu and C. Pozna, "Towards a Stable Robotic Object Manipulation through 2D-3D Features Tracking", <i>Advanced Robotic Systems</i> , InTech, ISSN: 1729-8806, 2013. http://journals.sagepub.com/doi/full/10.5772/55952	1,223	2,846
P1.2 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca prim autor (număr de autori ≥ 4)	Factor de impact	Punctaj
S.M. Grigorescu , B. Trăsnea, T.T. Cocias and G. Macesanu, A Survey of Deep Learning Techniques for Autonomous Driving, <i>Journal of Field Robotics</i> , Wiley, November 2019. https://doi.org/10.1002/rob.21918	4,345	6,817
S.M. Grigorescu , B. Trăsnea, L. Marina, A. Vasilcoi and T. Cocias, "NeuroTrajectory: A Neuroevolutionary Approach to Local State Trajectory Learning for Autonomous Vehicles", <i>IEEE Robotics and Automation Letters</i> , vol. 4, no. 4, DOI: 10.1109/LRA.2019.2926224, https://ieeexplore.ieee.org/abstract/document/8752412 , pp. 3441-3448, Oct. 2019.	3,6	4,560
S.M. Grigorescu , G. Macesanu, 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. http://www.sciencedirect.com/science/article/pii/S0921889011001266	2,928	3,754
S.M. Grigorescu , T. Lüth, C. Fragkopoulou, M. Cyriacks and Axel Gräser, "A BCI Controlled Robotic Assistant for Quadriplegic People in Domestic and Professional Life", <i>Robotica</i> , Cambridge University Press, vol. 30, no. 3, ISSN 0263-5747, 2012. http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8528109	1,184	1,661
P1.3 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)	Factor de impact	Punctaj

ca și co-autor (număr de autori ≤ 3)	impact	
T. Cocias, A. Razvant, S.M. Grigorescu, "GFPNet: A Deep Network for Learning Shape Completion in Generic Fitted Primitives", <i>IEEE Robotics and Automation Letters</i> , vol. 5, no. 3, pp. 4493-4500, Jul. 2020.	3,6	3,8
T. Cocias, F. Moldoveanu and S.M. Grigorescu, "Generic Fitted Shapes (GFS): Volumetric Object Segmentation in Service Robotics", <i>Robotics and Autonomous Systems</i> , Elsevier, Vol. 61, No. 9, DOI: 10.1016/j.robot.2013.04.020, ISSN: 0921-8890, 2013. http://www.sciencedirect.com/science/article/pii/S0921889013000845	2,928	3,128
P1.4 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ca și co-autor (număr de autori ≥ 4)	Factor de impact	Punctaj
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 & Robotic Systems</i> , Springer Netherlands, DOI: 10.1007/s10846-013-9994-4, ISSN 0921-0296, 2013. http://link.springer.com/article/10.1007%2Fs10846-013-9994-4	2,020	1,665
Danijela Ristić-Durrant, Sorin M. Grigorescu, Axel Gräser, Žarko Čojbašić and Vlastimir Nikolić, „Robust Stereo-Vision Based 3D Object Reconstruction for the Assistive Robot FRIEND”, <i>Advances in Electrical and Computer Engineering</i> , Volume 11, Issue 4, ISSN 1582-7445, Year 2011, On page(s): 15 – 22. http://www.aeece.ro/abstractplus.php?year=2011&number=4&article=3	0,650	0,51
Total P1		28,741
P2.1 Brevete de invenții internaționale indexate in Web of Science – Derwent Innovation	Factor de impact	Punctaj
S.M. Grigorescu, G. Măceșanu, T.T. Cocias, B. Trasnea, C. Ginerică "Generating training images for machine learning-based object recognition systems," European Patent, Patent no. EP 3 343 432 A1, Date of publication: 04.07.2018. https://patents.google.com/patent/EP3343432A1	2	2,64
Total P2		2,64
Total P1+P2		31,381
N3.1 Articole și publicații științifice BDI, neincluse la P1, ca prim autor		Punctaj
S.M. Grigorescu, "Generative One-Shot Learning (GOL): A Semi-Parametric Approach to One-Shot Learning in Autonomous Vision", <i>Proceedings of the Int. Conf. on Robotics and Automation ICRA 2018</i> , Brisbane, Australia, May 21-25, 2018.		1
S.M. Grigorescu, M. Glaab and J. Schlosser, "KI für Selbstfahrende Autos", <i>EE Faszination Elektronik</i> , http://www.industr.com/2303747/121541 , (in German) 2017.		1
S.M. Grigorescu, M. Glaab and A. Roßbach, "From logistic regression to self-driving cars: Chances and challenges of using machine learning for highly automated driving", <i>Elektrobit Automotive TechPaper</i> , https://www.elektrobit.com/newsroom/read-new-techpaper-chances-challenges-using-machine-learning-highly-automated-driving/ , 2017.		1
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, https://www.springer.com/br/book/9783319442594 , 2017.		1
S.M. Grigorescu, S. Natarajan, D. Mronga and A. Gräser, "Robust Feature Extraction for 3D Reconstruction of Boundary Segmented Objects in a Robotic Library Scenario", <i>Proceedings of the 2010 IEEE-RSJ International Conference on Intelligent Robots and Systems IROS</i> , pp. 4540-4547, Taipei, Taiwan, October 18÷22, 2010. http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5649650&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5649650		1
S.M. Grigorescu, D. Ristic-Durrant and A. Gräser, "RObust machine VIsion for Service robotic system FRIEND", <i>Proceedings of the 2009 IEEE-RSJ International Conference on Intelligent Robots and Systems IROS</i> , St. Louis, USA, October 10÷15, 2009, Tome II, pp. 3574÷3581, ISBN 978-1-4244-3803-7, DOI: 10.1109/IROS.2009.5354596 https://ieeexplore.ieee.org/document/5354596/		1
S.M. Grigorescu and F. Moldoveanu, "Controlling Depth Estimation for Robust Robotic Perception", <i>Proceedings of the 18th International Federation of Automatic Control – IFAC World Congress</i> , Milano, Italy, 28 August – 02 September, ISSN: 2405-8963, 2011. https://www.journals.elsevier.com/ifac-papersonline/		1
S.M. Grigorescu, D. Ristic-Durrant, S.K. Vupalla and A. Gräser, "Closed-Loop Control in Image Processing for Improvement of Object Recognition", <i>Proceedings of the 17th IFAC World Congress</i> , Seoul, Korea, July 06÷11, 2008, ISBN: 978-3-902661-00-5, DOI: 10.3182/20080706-5-KR-1001.2132. http://www.nt.ntnu.no/users/skoge/prost/proceedings/ifac2008/data/papers/2132.pdf		1
S.M. Grigorescu, O. Prenzel and A. Gräser, "Model Driven Developed Machine Vision System for		1

Service Robotics”, <i>Proceedings of the 12th International Conference on Optimization of Electrical and Electronic Equipments - OPTIM 2010</i> , pp. 877-883, Brasov, Romania, May 20÷22, ISBN 978-1-4244-7020-4, 2010. http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5510424&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5510424	
S.M. Grigorescu and A. Gräser, “Robust Machine Vision Framework for Localization of Unknown Objects”, <i>Proceedings of the 11th International Conference on Optimization of Electrical and Electronic Equipments – OPTIM 2008</i> , Braşov, Romania, May 22÷23, 2008, Vol. III, pp. 127÷130, ISBN 978-1-4244-1544-1, DOI: 10.1109/OPTIM.2008.4602468 https://ieeexplore.ieee.org/document/4602468/	1
S.M. Grigorescu and D. Ristic-Durrant, “Robust Extraction of Object Features in the System FRIEND II”, <i>Methods and Applications in Automation</i> , Shaker Verlag, Series 1, No. 2, pp. 97÷107, ISBN 978-3-8322-7666-9, ISSN 1861-5457, 2008. http://www.shaker.de/de/content/catalogue/Element.asp?ID=&Element_ID=34203&Mode=PageFrame	1
S.M. Grigorescu and F. Moldoveanu, “A Feedback Control Gaze Following Approach for Human-Robot Interaction”, <i>Memoirs of the Scientific Sections of the Romanian Academy</i> , Tome XXXIX, ISBN 978-973-27-1551-2, 2016. http://mss.academiaromana-is.ro/mem_sc_st_2016/5_Grigorescu.pdf	1
S.M. Grigorescu and G. Măceşanu, “Dynamic Road Structure Estimation”, <i>Bulletin of the Transilvania University of Braşov, Series I: Engineering Sciences, Electrical Engineering, Electronics and Automation</i> , vol. 8 (57), no. 2, ISSN 2065-2127, 2015. http://webbut.unitbv.ro/bulletin/Series%20I/BULETIN%20I/Grigorescu%20SM.pdf	1
Total N3.1	13
N3.2 Articole şi publicaţii ştiinţifice BDI, neincluse la P1, ca şi co-autor	Punctaj
C. Sandor, S. Pavel, W. Erik, A. Blaga, P. Boda, A.O. Fulop, A. Ursache, A. Zold, A. Kopacz, B. Lazar, K. Szabo, Z. Tasnadi, B. Trinfă, L. Csato, D.M. Tegzes, M.L. Pop, R.A. Tarziu, M.V. Zaha, S.M. Grigorescu , L. Busoniu, P. Raica, L. Tamas, “The ClujUAV student competition: A corridor navigation challenge with autonomous drones”, <i>21st Int. Federation of Automatic Control World Congress IFAC</i> , Berlin, Germany, 2020.	1
M. Schleicher, S.M. Grigorescu , “How Neural Networks Change Automotive Software Development”, <i>ATZ Elektron</i> , Springer, no. 15, pp. 18–24, DOI: https://doi.org/10.1007/s38314-019-0153-y , 2020.	1
L.A. Marina, B. Trasnea, T. Cocias, A. Vasilcoi, F. Moldoveanu and S.M. Grigorescu , “Deep Grid Net (DGN): A Deep Learning System for Real-Time Driving Context Understanding”, <i>Int. Conf. on Robotic Computing IRC 2019</i> , Naples, Italy, February 25-27, 2019.	1
B. Trasnea, L.A. Marina, A. Vasilcoi, C. Pozna and S.M. Grigorescu , “GridSim: A Vehicle Kinematics Engine for Deep Neuroevolutionary Control in Autonomous Driving”, <i>Int. Conf. on Robotic Computing IRC 2019</i> , Naples, Italy, February 25-27, 2019. https://ieeexplore.ieee.org/abstract/document/8675568	1
B. Trasnea, C. Pozna and S.M. Grigorescu , “AIBA: An AI Model for Behavior Arbitration in Autonomous Driving”, <i>Int. Conf. on Multi-disciplinary Trends in Artificial Intelligence MIWAI 2019</i> , Kuala Lumpur, Malaysia, November 17-19, 2019. https://link.springer.com/chapter/10.1007/978-3-030-33709-4_17	1
D. Calaver, L. Floroian and S.M. Grigorescu , “Assistive Rehabilitation using a 7-DoF Robotic Arm with Self-Collision and Obstacle Avoidance System”, <i>7th IEEE Int. Conf. on E-Health and Bioengineering EHB 2019</i> , Iasi, Romania, November 21-23, 2019. https://ieeexplore.ieee.org/document/8970082	1
L.A. Marina, B. Trasnea and S.M. Grigorescu , A Multi-Platform Framework for Artificial Intelligence Engines in Automotive Systems, 22nd Int. Conf. on System Theory, Control and Computing (ICSTCC), 2018. https://ieeexplore.ieee.org/abstract/document/8540753	1
G. Măceşanu, 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. https://www.researchgate.net/publication/287017602_A_PTZ_stereo_camera_vision_system_for_robotic_perception	1
T.T. Cocias, S.M. Grigorescu and F. Moldoveanu, “3D Structure Estimation from a Single View Using Generic Fitted Primitives (GFP)”, <i>Computer Vision, Imaging and Computer Graphics. Theory and Application, Communications in Computer and Information Science</i> , Springer, Berlin-Heidelberg, vol. 359, ISBN: 978-3-642-38240-6, DOI: 10.1007/978-3-642-38241-3_25 , pp. 369-382, 2013. http://link.springer.com/chapter/10.1007%2F978-3-642-38241-3_25	1
T.T. Cocias, S.M. Grigorescu and F. Moldoveanu, “Indoor Pose Estimation Using 3D Scene Landmarks for Service Robotics”, <i>Issues and Challenges of Intelligent Systems and Computational Intelligence</i> , Springer, Berlin-Heidelberg, Editors: László T. Kóczy, Claudiu R. Pozna, Janusz Kacprzyk, vol. 530,	1

ISBN: 978-3-319-03205-4, DOI: 10.1007/978-3-319-03206-1_15, pp. 199-211, 2014. http://link.springer.com/chapter/10.1007/978-3-319-03206-1_15	
L. Marina, F. Moldoveanu and S.M. Grigorescu , "Environment perception in racing simulators using deep neural networks," <i>Proceedings of the 2017 Int. Conf. on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, ISBN 978-1-5090-4489-4, 25-27 May 2017. https://ieeexplore.ieee.org/document/7975119/	1
B. Trăsnea, G. Măceşanu, S.M. Grigorescu and T. Cociaş, "Smartphone Based Mass Traffic Sign Recognition for Real-time Navigation Maps Enhancement," <i>Proceedings of the 2017 Int. Conf. on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, ISBN 978-1-5090-4489-4, 25-27 May 2017 https://ieeexplore.ieee.org/document/7975125/	1
T.T. Cociaş, S.M. Grigorescu and F. Moldoveanu, "Multiple-Superquadrics based Object Surface Estimation for Grasping in Service Robotics" <i>Proceedings of the 13th International Conference on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 24-26 May 2012, ISBN 978-1-4244-7018-1, pp. 1471-1477. http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6231780	1
G. Macesanu, S.M. Grigorescu , J.F. Ferreira, J. Dias and F. Moldoveanu, "Real Time Facial Features Tracking using an Active Vision System" <i>Proceedings of the 13th International Conference on Optimization of Electrical and Electronic Equipment</i> , Brasov, Romania, 24-26 May 2012, ISBN 978-1-4244-7018-1, pp. 1493-1498. https://ieeexplore.ieee.org/document/6231866/	1
S. Natarajan, S.M. Grigorescu , D. Mronga and A. Gräser, "Robust Detection and 3D Reconstruction of Boundary Segmented Objects in a Robotic Library Scenario", <i>Methods and Applications in Automation</i> , Shaker Verlag, Series 1, No. 3, ISBN 978-3-8322-7666-9, ISSN 1861-5457, 2010. http://www.shaker.de/de/content/catalogue/Element.asp?ID=&Element_ID=39716&Mode=PageFrame	1
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Ch. Boldişor, V. Comnac, S. Coman and S.M. Grigorescu , "A Combined Experience and Model Based Design Methodology of a Fuzzy Control System for Mean Arterial Pressure and Cardiac Output", <i>Proceedings of the 18th International Federation of Automatic Control – IFAC World Congress</i> , Milano, Italy, ISBN 978-3-902661-93-7, 28 August– 02 September, 2011. https://ac.els-cdn.com/S1474667016440528/1-s2.0-S1474667016440528-main.pdf?_tid=5a4431e9-63c3-4587-8baa-ff2bda6cb831&acdnat=1536758500_0d66b621110408c968f9d63943e82f24	1
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Total N3	36
N4.3 Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pag.) ca prim autor	Punctaj
S.M. Grigorescu , <i>Robust Machine Vision for Service Robotics</i> , Editura Shaker Verlag, 150 pag., ISBN 978-3-8322-9146-4, ISSN 1861-5457, Aachen, Germania, 2010. http://www.shaker.de/de/content/catalogue/index.asp?lang=de&ID=8&ISBN=978-3-8322-9146-4	1
S.M. Grigorescu and Gräser, A. <i>AMaRob: Autonomous Manipulator control for rehabilitation robots</i> (in German), 2010.	1
Total N4.3	2
N4.4 Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pag.) ca și co-autor	Punctaj
T.T. Cocias, A. Răzvanț și S.M. Grigorescu , <i>Percepția 3D în sistemele robotice autonome</i> , Editura Universității Transilvania, ISBN 978-606-19-1165-3, 2019.	1
T.T. Cocias, F. Moldoveanu, S.M. Grigorescu , <i>Estimarea volumetrică 3D în sisteme robotice autonome</i> . Editura Universității Transilvania, ISBN 978-606-19-0985-8, 2018.	1
Total N4	4

A3 – Recunoașterea și impactul activității – RIA	
S1 Atragerea resurse financiare prin granturi/proiecte/contracte cu terți. Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională.	Sumă echivalentă în mii Euro
Contr. Nr. FKZ: 524 40001 01 IMF01A / 2006-2010 – “ <i>AMAROB - Autonome Manipulatorsteuerung für Rehabilitationsroboter (Control autonom al brațelor manipulator pentru roboți de reabilitare)</i> ”. Beneficiar: Institutul de Automatică, Universitatea Bremen, Germania (valoare 1.273.916,00 EUR). Finanțator: Ministerul German pentru Educație și Cercetare (BMBF – Bundesministerium fuer Bildung und Forschung).	1.273,916
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Contr. Nr. MTKD-CT-2004-014249 – “ <i>Multimodal image processing methods for the visual control of robots (Metode de procesare de imagini multimodale pentru controlul vizual al roboților)</i> ”. Beneficiar: Institutul de Automatică, Universitatea Bremen, Germania (valoare 10.200,00 EUR). Finanțator: EU, Proiect Limesy. Durata: 01.11.2006 – 31.10.2007.	10,20
Contract de cooperare între Universitatea Bremen, Institutul de Automatică și Universitatea Transilvania din Brașov, Departamentul de Automatică și Tehnologia Informației (valoare: 4.432,58 EUR). Finanțator: Universitatea Bremen, Institutul de Automatică. Durata: 15.07.2010 – 14.07.2013.	4,432
Total S1	1.302,55
S2 Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională	
Contr. Nr. 13866 / 30.10.2019 – “ <i>Sistem inteligent de recunoaștere facială pentru facilitarea accesului în zone rezidențiale</i> ”. Beneficiar: Universitatea Transilvania din Brașov (valoare 50.632 RON). Finanțator: RG Design SRL.	10.548
Contr. Nr. 6885 / 26.06.2019 – “ <i>Sistem inteligent de tip HMI (Human Machine Interface) pentru controlul prin gesturi</i> ”. Beneficiar: Universitatea Transilvania din Brașov (valoare 48.626 RON). Finanțator: Creature Promotions SRL.	10.130
Total S2	20.678
Total S1+S2	21.980,55
N5 Prezentarea/Diseminarea rezultatelor: prezentă la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	Punctaj
Membru invitat în comisia de evaluare a tezei de doctorat cu titlul <i>Multimodal human-robot interface for heterogeneous robotic systems control in harsh environments</i> , drd. Giacomo Lunghi, îndrumători Prof. Dr. Pedro J. Sanz și Prof. Dr. Raúl Marín Prades, Universitatea Jaume I, Castellon de la Plana, Spania, 2020.	1
S.M. Grigorescu , “Self-learning software for predictive systems in autonomous driving”, <i>AI Automotive – Artificial Intelligence as Key for Autonomous Driving</i> , Munich, Germany, 28-29 November, 2017. https://www.sv-veranstaltungen.de/fachbereiche/ai-automotive/?lang=en	1
S.M. Grigorescu and A. Gräser, “Robust Visual Processing for Service Robotics Tasks”, <i>X Triennial International Conference – SAUM 2010</i> , Niš, Serbia, 10÷12 November, 2010.	1
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Teaching mobility contract from Bremen University to Transilvania University of Brasov, 2009 (valoare: 600,00 EUR). Finanțator: Universitatea Bremen, Germania.	1
Teaching mobility contract from Bremen University to Transilvania University of Brasov, 2008 (valoare: 600,00 EUR). Finanțator: Universitatea Bremen, Germania.	1
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S.M. Grigorescu, G. Măceșanu, 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. https://ieeexplore.ieee.org/document/6085662/	1
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C Citări în cărți, reviste și volume ale unor manifestări științifice - cărți, ISI	Factor de impact	Punctaj
Citări ale articolului: S.M. Grigorescu , T. Lüth, C. Fragkopoulos, M. Cyriacks and Axel Gräser, “A BCI Controlled Robotic Assistant for Quadriplegic People in Domestic and Professional Life”, <i>Robotica</i> , Cambridge University Press, vol. 30, no. 3, ISSN 0263-5747, 2012. http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8528109		
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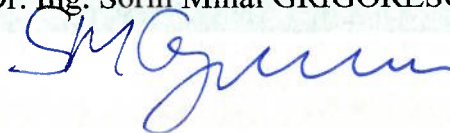
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