

<b>A1. Activitatea didactică / profesională</b>	<b>Puncte</b>
A1.1.1. Cărți/ monografii/ capitole ca autor în edituri internaționale	<b>25</b>
A1.1.2. Cărți/ monografii/ capitole ca autor în edituri naționale	<b>60</b>
A1.2.1. Manuale didactice	<b>20</b>

<b>A2. Activitatea de cercetare</b>	<b>Puncte</b>
A2.1. Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	<b>361.81</b>
A2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)	<b>80</b>
A2.3. Proprietate intelectuală, brevete de invenție, certificate ORDA	<b>144.7</b>
A2.4. Granturi / proiecte de cercetare câștigate prin competiție sau contracte cu agenți economici, în valoare de m	<b>258</b>

<b>A3. Recunoașterea și impactul activității</b>	<b>Puncte</b>
A3.1. Citări în cărți, reviste și volume ale unor manifestări științifice	<b>128.7</b>
A3.4. Premii in domeniu	<b>15</b>

<b>Indicator</b>	<b>Conditii minimale – Profesor</b>	<b>Realizat</b>
A1 - Activitatea didactică / profesională	100	<b>105</b>
A1.1.1 - A1.1.2 Cărți și capitole în cărți de specialitate	4	<b>4</b>
A1.2.1 - Material didactic / Lucrări didactice	2	<b>2</b>
A2 - Activitatea de cercetare	500	<b>844.51</b>
A2.1 - Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	12	<b>35</b>
A2.4.1 - Granturi/proiecte câștigate prin competiție (Director/responsabil )	2	<b>5</b>
F1 cumulat pentru publicatii	6	<b>119.45</b>
A3 - Recunoașterea impactului activității	100	<b>142.7</b>
A3.1.1 - A3.1.2 Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI sau BDI	20	<b>87</b>

Șef lucr. dr. ing. Lucian Mihai Itu

## A1. Activitatea didactică / profesională

### A1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute

#### A1.1.1. Cărți/ monografii/ capitole ca autor în edituri internaționale (25 pct.)

Nr. crt.	Lucrare
1	<b>Itu, L.M.</b> , Sharma, P., Suci, C. (Eds.) <i>Patient-specific Hemodynamic Computations: Application to Personalized Diagnosis of Cardiovascular Pathologies</i> , Springer, Heidelberg, Germany, 2017, 234 pag., ISBN: 978-3-319-56852-2, DOI: 10.1007/978-3-319-56853-9. <a href="http://www.springer.com/gp/book/9783319568522">http://www.springer.com/gp/book/9783319568522</a>
<b>1 lucrare x 25 pct. = 25 pct.</b>	

#### A1.1.2. Cărți/ monografii/ capitole ca autor în edituri naționale (20 pct.)

Nr. crt.	Lucrare
1	Margineanu, I., <b>Itu, L.M.</b> , Ștefan, I., Itu, A., <i>Programarea aplicațiilor de timp real</i> , Editura Universității Transilvania din Brașov, 2016, 353 pag., ISBN: 978-606-19-0751-9 (Cod CNCSIS 81).
2	<b>Itu, L.M.</b> , <i>Modelarea personalizată a sistemului cardiovascular</i> , Editura Universității Transilvania din Brașov, 2015, 186 pag., ISBN: 978-606-19-0580-5 (Cod CNCSIS 81).
3	Margineanu, I., Cobeanu, I., <b>Itu, L.M.</b> , <i>Utilizarea Calculatoarelor în Controlul Proceselor. Aplicații</i> , Editura Universității Transilvania din Brașov, 2010, 193 pag., ISBN: 978-973-598-726-8 (Cod CNCSIS 81).
<b>3 lucrări x 20 pct. = 60 pct.</b>	

**Total A1.1 : 85 puncte (4 lucrări)**

### A1.2. Material didactic / Lucrări didactice

#### A1.2.1. Manuale didactice (10 pct.)

Nr. crt.	Lucrare
1	Margineanu, I., <b>Itu, L.M.</b> , Ștefan, I., Itu, A., <i>Automate Programabile. Aplicații</i> , Editura Universității Transilvania din Brașov, 2016, 177 pag., ISBN: 978-606-19-0862-2 (Cod CNCSIS 81).
2	Suci, C., <b>Itu, L.M.</b> , <i>Introducere în Rețele Industriale de Comunicație</i> , Editura Universității Transilvania din Brașov, 2016, 98 pag., ISBN: 978-606-19-0885-1 (Cod CNCSIS 81).
<b>2 lucrări x 10 pct. = 20 pct.</b>	

**Total A1.2 : 20 puncte (2 lucrări)**

<b>Total A1 : 105 puncte</b>
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Indicator	Conditii minimale – Profesor	Realizat
A1 - Activitatea didactică / profesională	100	105
A1.1.1 - A1.1.2 Cărți și capitole în cărți de specialitate	4	4
A1.2.1 - Material didactic / Lucrări didactice	2	2

Șef lucr. dr. ing. Lucian Mihai Itu

## A2. Activitatea de cercetare

### A2.1. Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings ( (25+20 x factor impact) / nr. de autori )

Nr. crt.	Lucrare	Pct.
1	<b>Itu, L. M.</b> , Sharma, P., Suciu, C., Moldoveanu, F., Comaniciu, D., <i>Personalized Blood Flow Computations: A Hierarchical Parameter Estimation Framework for Tuning Boundary Conditions</i> , International Journal on Numerical Methods in Biomedical Engineering, Vol. 33, March 2017, pp. e02803, ISSN: 2040-7947, DOI: 10.1002/cnm.2803 (ISI journal, WOS:000395407900006, FI: 2.192). <a href="http://onlinelibrary.wiley.com/doi/10.1002/cnm.2803/abstract">http://onlinelibrary.wiley.com/doi/10.1002/cnm.2803/abstract</a>	13.77
2	Neumann, D., Mansi, T., <b>Itu, L.M.</b> , Georgescu, B., Kayvanpour, E., Sedaghat-Hamedani, F., Amr, A., Haas, J., Katus, H., Meder, B., Steidl, S., Hornegger, J., Comaniciu, D., <i>A Self-Taught Artificial Agent for Multi-Physics Computational Model Personalization</i> , Medical Image Analysis, Vol. 34, Dec. 2016, pp. 52–64, ISSN: 1361-8415, DOI: 10.1016/j.media.2016.04.003 (ISI journal, WOS:000385320800006, FI: 4.188). <a href="http://www.sciencedirect.com/science/article/pii/S1361841516300214">http://www.sciencedirect.com/science/article/pii/S1361841516300214</a>	8.37
3	Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., <b>Itu, L.M.</b> , Lazar, L., Carp, M., Itu, A., Suciu, C., Passerini, T., Sharma, S., Georgescu, B., Comaniciu, D., <i>A data-driven approach combining image-based anatomical features and resting state measurements for the functional assessment of coronary artery disease</i> , Journal of the American College of Cardiology, Vol. 68, November 2016, pp. B212-B213, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2016.09.664 (ISI Journal, WOS:000398590400054, FI: 19.896). <a href="http://www.sciencedirect.com/science/article/pii/S0735109716359861">http://www.sciencedirect.com/science/article/pii/S0735109716359861</a>	28.19
4	<b>Itu, L. M.</b> , Rapaka, S., Passerini T., Georgescu, B., Schwemmer, C., Schoebinger, M., Flohr, T., Sharma, P., Comaniciu, D., <i>A Machine Learning Approach for Computation of Fractional Flow Reserve from Coronary Computed Tomography</i> , Journal of Applied Physiology, Vol. 121, July 2016, pp. 42-52, ISSN: 8750-7587, DOI: 10.1152/jappphysiol.00752.2015 (ISI journal, WOS:000372013600004, FI: 3.351). <a href="https://www.ncbi.nlm.nih.gov/pubmed/27079692">https://www.ncbi.nlm.nih.gov/pubmed/27079692</a>	10.22
5	<b>Itu, L.M.</b> , Passerini, T., Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., Lazar, L., Carp, M., Itu, A., Suciu, C., Sharma, S., Georgescu, B., Comaniciu, D., <i>Image-Based Computation of Instantaneous Wave-free Ratio from Routine Coronary Angiography - Evaluation of a Hybrid Decision Making Strategy with FFR</i> , Journal of the American College of Cardiology, Vol. 67, April 2016, pp. 328, ISSN: 0735-1097, DOI: 10.1016/S0735-1097(16)30329-1 (ISI Journal, WOS:000375188701172, FI: 19.896). <a href="http://www.sciencedirect.com/science/article/pii/S0735109716303291">http://www.sciencedirect.com/science/article/pii/S0735109716303291</a>	28.19
6	Coenen, A., Lubbersa, M., Kurata, A., Kono, A., Dedic, A., Chelu, R., Dijkshoorn, M., van Geuns, R.J., Schoebinger, M., <b>Itu, L.M.</b> , Sharma, P., Nieman, K., <i>Coronary CT angiography derived fractional flow reserve: Methodology and evaluation of a point of care algorithm</i> , Journal of Cardiovascular Computed Tomography, Vol. 10, March–April 2016, pp. 105–113, ISSN: 1934-5925, DOI: 10.1016/j.jcct.2015.12.006 (ISI journal, , FI: 3.185). <a href="https://www.ncbi.nlm.nih.gov/pubmed/26747231">https://www.ncbi.nlm.nih.gov/pubmed/26747231</a>	7.39
7	Tröbs, M., Achenbach, S., Röther, J., Redel, T., Scheuring, M., Winneberger, D., Kligenbeck, K., <b>Itu, L.M.</b> , Passerini, T., Kamen, A., Sharma, P., Comaniciu, D., Schlundt, C., <i>Comparison of Fractional Flow Reserve Based on Computational Fluid Dynamics Modeling Using Coronary Angiographic Vessel Morphology versus Invasively Measured Fractional Flow Reserve</i> , The American Journal of Cardiology, Vol. 117, Jan 2016, pp. 29-35, ISSN: 0002-9149, DOI: 10.1016/j.amjcard.2015.10.008 (ISI journal,	7.15

	WOS:000368048900005, FI: 3.398). <a href="https://www.ncbi.nlm.nih.gov/pubmed/26596195">https://www.ncbi.nlm.nih.gov/pubmed/26596195</a>	
8	Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., <b>Itu, L.M.</b> , Lazar, L., Carp, M., Itu, A., Suciuc, C., Passerini, T., Sharma, S., Georgescu, B., Comaniciu, D., <i>Image-Based Computation of Instantaneous Wave-free Ratio from Routine Coronary Angiography - Initial Validation by Invasively Measured Coronary Pressures</i> , Journal of the American College of Cardiology, Vol. 66, October 2015, pp. B17-B18, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2015.08.087 (ISI Journal, WOS:000363329000041, FI: 19.896). <a href="http://www.sciencedirect.com/science/article/pii/S0735109715050494">http://www.sciencedirect.com/science/article/pii/S0735109715050494</a>	30.21
9	Ralovich, K., <b>Itu, L.M.</b> , Vitanovski, D., Sharma, P., Ionasec, R., Mihalef, V., Krawtschuk, W., Zheng, Y., Everett, A., Pongiglione, G., Leonardi, B., Ringel, R., Navab N., Heimann, T., Comaniciu, D., <i>Noninvasive hemodynamic assessment, treatment outcome prediction and follow-up of aortic coarctation from MR imaging</i> , Medical Physics, Vol. 42, April 2015, pp. 2143-2156, ISSN: 2473-4209, DOI: 10.1118/1.4914856 (ISI journal, WOS:000354776800006, FI: 2.617). <a href="https://www.ncbi.nlm.nih.gov/pubmed/25979009">https://www.ncbi.nlm.nih.gov/pubmed/25979009</a>	5.15
10	<b>Itu, L. M.</b> , Sharma, P., Passerini T., Kamen, A., D., Suciuc, C., Comaniciu, D., <i>A Parameter Estimation Framework for Patient-specific Hemodynamic Computations</i> , Journal of Computational Physics, Vol. 281, Jan, 2015, pp. 316-333, ISSN 0021-9991, DOI: 10.1016/j.jcp.2014.10.034 (ISI journal, WOS:000346429300018, FI: 2.774). <a href="http://www.sciencedirect.com/science/article/pii/S0021999114007165">http://www.sciencedirect.com/science/article/pii/S0021999114007165</a>	13.41
11	Schlundt, C., Redel, T., Scheuering, M., Groke, D., Klingenbeck, K., <b>Itu, L.M.</b> , Sharma, P., Kamen, A., Comaniciu, D., Achenbach, S. <i>Model-Based Determination of Fractional Flow Reserve Based on Coronary Angiography-Initial Validation by Invasively Measured FFR</i> , Journal of the American College of Cardiology, Vol. 64, Setember 2014, pp. B96-B97, ISSN: 0735-1097, DOI: 10.1016/j.jacc.2014.07.380 (ISI Journal, WOS:000359649700330, FI: 19.896). <a href="http://www.sciencedirect.com/science/article/pii/S0735109714049201">http://www.sciencedirect.com/science/article/pii/S0735109714049201</a>	42.29
12	<b>Itu, L. M.</b> , Sharma, P., Kamen, A., D., Suciuc, C., Comaniciu, D., <i>Graphics Processing Unit Accelerated One-Dimensional Blood Flow Computation in the Human Arterial Tree</i> , International Journal on Numerical Methods in Biomedical Engineering, Vol. 29, December, 2013, pp. 1428 – 1455, ISSN: 2040-7947, DOI: 10.1002/cnm.2585 (ISI journal, WOS:000327732300008, FI: 2.192). <a href="http://onlinelibrary.wiley.com/doi/10.1002/cnm.2585/abstract">http://onlinelibrary.wiley.com/doi/10.1002/cnm.2585/abstract</a>	13.77
13	<b>Itu, L. M.</b> , Sharma, P., Ralovich, K., Mihalef, V., Ionasec, R., Everett, A., Ringel, R., Kamen, A., Comaniciu, D., <i>Non-invasive Hemodynamic Assessment of Aortic Coarctation: Validation with in-vivo Measurements</i> , Annals of Biomedical Engineering, Vol. 41, April, 2013, pp. 669-681, ISSN: 1573-9686, DOI: 10.1007/s10439-012-0715-0 (ISI journal, WOS:000316566400002, FI: 3.221). <a href="https://link.springer.com/article/10.1007/s10439-012-0715-0">https://link.springer.com/article/10.1007/s10439-012-0715-0</a>	9.93
14	Nita, C., Stroia, I., <b>Itu, L.M.</b> , Suciuc, C., Mihalef, V., Datar, M., Rapaka, S., Sharma, P. <i>GPU accelerated, robust method for voxelization of solid objects</i> , 20 <sup>th</sup> IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 13-15, 2016, pp. 50-55, ISBN: 978-1-5090-3526-7 (ISI Proceedings, WOS:000391407100006) <a href="http://ieeexplore.ieee.org/document/7761582/">http://ieeexplore.ieee.org/document/7761582/</a>	3.75
15	Vizitiu, A., <b>Itu, L.</b> , Joyseeree, R., Depeursinge, A., Muller, H., Suciuc, C. <i>GPU-Accelerated Texture Analysis Using Steerable Riesz Wavelets</i> , 24th Euromirco International Conference on Parallel, Distributed, and Network-Based Processing – PDP 2016, Heraklion Crete, Greece, February 17-19, 2016, pp. 56-61, ISSN: 2377-5750 (ISI Proceedings, WOS:000381810900066) <a href="http://ieeexplore.ieee.org/document/7445372/">http://ieeexplore.ieee.org/document/7445372/</a>	5
16	Iacob, A., <b>Itu, L.M.</b> , Sasu, L., Moldoveanu, F., Suciuc, C., <i>GPU Accelerated Information Retrieval Using Bloom Filters</i> , Proceedings of the 19th International Conference on System Theory, Control and Computing – ICSTCC 2015, Cheile Grădiștei – Fundata, Romania, October 14÷16, 2015, pp. 872÷876, ISBN: 978-1-4799-8481-7 (ISI Proceedings, WOS:000382384100145) <a href="http://ieeexplore.ieee.org/document/7321404/">http://ieeexplore.ieee.org/document/7321404/</a>	6
17	Stroia, I., <b>Itu, L.</b> , Niță, C, Lazăr, L., Suciuc, C. <i>GPU Accelerated Geometric Multigrid Method: Performance Comparison on Different Architectures</i> , 19th Inter. Conf. on System	4

	Theory, Control and Computing - ICSTCC 2015, Sinaia, Romania, October 14-16, 2015, pp. 175-179, ISBN: 978-1-4799-8482-4 (ISI Proceedings, WOS:000382384100030) <a href="http://ieeexplore.ieee.org/document/7321289/">http://ieeexplore.ieee.org/document/7321289/</a>	
18	Neumann, D., Mansi, T., <b>Itu, L.M.</b> , Georgescu, B., Kayvanpur, E., Sedaghat-Hamedani, F., Haas, J., Katus, H., Meder, B., Steidl, S., Hornegger, J., Comaniciu, D., <i>Vito - A Generic Agent for Multi-Physics Model Personalization: Application to Heart Modeling</i> , Proc. of the 18th Inter. On Medical Image Computing and Computer Assisted Intervention - MICCAI 2015, Munich, Germany, Oct. 5-9, 2015, pp. 442-449, ISBN: 978-3-319-24570-6 (ISI Proceedings, Springerlink, ). <a href="https://link.springer.com/chapter/10.1007/978-3-319-24571-3_53">https://link.springer.com/chapter/10.1007/978-3-319-24571-3_53</a>	2.5
19	Stroia, I., <b>Itu, L.</b> , Niță, C, Lazăr, L., Suciuc, C. <i>GPU Accelerated Geometric Multigrid Method: Comparison with Preconditioned Conjugate Gradient</i> , 19 <sup>th</sup> IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 15-17, 2015, pp. 1-6, ISBN: 978-1-4673-9287-7 (ISI Proceedings, WOS:000380543000044) <a href="http://ieeexplore.ieee.org/document/7322480/">http://ieeexplore.ieee.org/document/7322480/</a>	6
20	Nita, C., <b>Itu, L. M.</b> , Mihalef, V., Sharma, P., Rapaka, S., <i>GPU-accelerated model for fast, three-dimensional fluid-structure interaction computations</i> , Proc. of the 37th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2015, Milano, August 25-29, 2015, pp. 965-968, ISSN: 1094-687X (ISI Proceedings, IEEE Xplore, WOS:000366206800053). <a href="http://ieeexplore.ieee.org/document/7318524/">http://ieeexplore.ieee.org/document/7318524/</a>	6
21	Vizitiu, A., <b>Itu, L.M.</b> , Nita, C., Suciuc, C. <i>Optimized Three-Dimensional Stencil Computation on Fermi and Kepler GPUs</i> , 18 <sup>th</sup> IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 9-11, 2014, pp. 78-83, ISBN: 978-1-4799-6232-7 (ISI Proceedings, WOS:000380479300026) <a href="http://ieeexplore.ieee.org/document/7040968/">http://ieeexplore.ieee.org/document/7040968/</a>	7.5
22	<b>Itu, L. M.</b> , Sharma, P., Georgescu, B., Kamen, A., D., Suciuc, C., Comaniciu, D. <i>Model Based Non-invasive Estimation of PV Loop from Echocardiography</i> , Proc. of the 36th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2014, Chicago, USA, August 26-30, 2014, pp. 6774-6777, ISSN: 1094-687X (ISI Proceedings, IEEE Xplore, WOS:000350044706186). <a href="https://www.ncbi.nlm.nih.gov/pubmed/25571551">https://www.ncbi.nlm.nih.gov/pubmed/25571551</a>	5
23	<b>Itu, L. M.</b> , Suciuc, C. <i>An external tissue support model for the arterial wall based on in vivo data</i> , Proc. of IEEE International Symposium on Medical Measurements and Applications – MeMeA 2014, Lisbon, Portugal, June 11-12, 2014, pp. 1-6, ISBN: 978-1-4799-2922-1 (ISI Proceedings, IEEE Xplore, WOS:000346747000029). <a href="http://ieeexplore.ieee.org/document/6860049/">http://ieeexplore.ieee.org/document/6860049/</a>	15
24	<b>Itu, L. M.</b> , Suciuc, C. <i>A method for modeling surrounding tissue support and its global effects on arterial hemodynamics</i> , Proc. of IEEE International Conference on Biomedical and Health Informatics – BHI 2014, Valencia, Spain, June 1-4, 2014, pp. 1-4, ISSN: 2168-2194 (ISI Proceedings, IEEE Xplore, WOS:000346504900141). <a href="http://ieeexplore.ieee.org/document/6864433/">http://ieeexplore.ieee.org/document/6864433/</a>	15
25	Chen, W., <b>Itu, L. M.</b> , Sharma, P., Kamen, A. <i>Uncertainty Quantification in Medical Image-Based Hemodynamic Computations</i> , Proc. of the IEEE Inter. Symp. On Biomedical Imaging - ISBI 2014, Beijing, China, April 29 - 2 May, 2014, pp. 1-6, ISSN: 1945-7928 (ISI Proceedings, WOS:000392750900108) <a href="http://ieeexplore.ieee.org/document/6867901/">http://ieeexplore.ieee.org/document/6867901/</a>	7.5
26	<b>Itu, L. M.</b> , Sharma, P., Kamen, A., D., Suciuc, C., Comaniciu, D. <i>A Novel Coupling Algorithm for Computing Blood Flow in Viscoelastic Arterial Models</i> , Proc. of the 35th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2013, Osaka, Japan, July 3-7, 2013, pp. 727-730, ISSN: 1557-170X (ISI Proceedings, IEEE Xplore, WOS:000341702101054). <a href="http://ieeexplore.ieee.org/document/6609603/">http://ieeexplore.ieee.org/document/6609603/</a>	6
27	Ralovich, K., <b>Itu, L.M.</b> , Mihalef, V., Sharma, P., Ionasec, R., Vitanovski, D., Krawtschuk, W., Everett, A., Ringel, R., Navab, N., Comaniciu D. <i>Hemodynamic assessment of pre- and post-operative aortic coarctation from MRI</i> , Proc. of Medical Image Computing and Computer Assisted Interventions – MICCAI 2012, Nice, France, October 1-5, 2012, pp. 486-493, ISBN: 978-3-642-33417-7 (ISI Proceedings, Springerlink, WOS:000371316700060).	2.73

	<a href="https://www.ncbi.nlm.nih.gov/pubmed/23286084">https://www.ncbi.nlm.nih.gov/pubmed/23286084</a>	
28	Niță, C., <b>Itu, L. M.</b> , Suciu, C. <i>GPU Accelerated Blood Flow Computation using the Lattice Boltzmann Method</i> , 17 <sup>th</sup> IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 10-12, 2013, pp. 1-6, ISBN: 978-1-4799-1364-0 (ISI Proceedings, IEEE Xplore, WOS:000332186600009). <a href="http://ieeexplore.ieee.org/document/6670324/">http://ieeexplore.ieee.org/document/6670324/</a>	10
29	Sharma, P., <b>Itu, L. M.</b> , Zheng, X., Kamen, A., Bernhardt, D., Suciu, C., Comaniciu, D., <i>A Framework for Personalization of Coronary Flow Computations During Rest and Hyperemia</i> , Proc. of the 34th Annual Inter. Conf. of the IEEE Engineering in Medicine & Biology Society - EMBC 2012, San Diego, California, USA, Aug. 28-Sept. 1, 2012, pp. 6665 - 6668, ISSN: 1557-170X, ISBN: 978-1-4244-4119-8 (ISI Proceedings, IEEE Xplore, WOS:000313296506209). <a href="https://www.ncbi.nlm.nih.gov/pubmed/23367458">https://www.ncbi.nlm.nih.gov/pubmed/23367458</a>	4.29
30	<b>Itu, L. M.</b> , Sharma, P., Zheng, X., Mihalef, V., Kamen, A., Suciu, C., <i>Patient-Specific Modeling and Hemodynamic Simulation in Healthy and Diseased Coronary Arteries</i> , Proc. of the ASME 2012 Summer Bioengineering Conference - SBC 2012, Fajardo, Puerto Rico, June 20-23, 2012, ISBN 978-0-7918-4480-9 (ISI Proceedings, Google Scholar, WOS:000325036600291) <a href="http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1717999">http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1717999</a>	5
31	<b>Itu, L.M.</b> , Sharma P., Kamen, A., Suciu, C., Postelnicu, A., Moldoveanu, F., <i>GPU Accelerated Simulation of the Human Arterial Circulation</i> , Proceedings of the 13th International Conference on Optimization of Electrical and Electronic Equipment – OPTIM 2012, Braşov, Romania, May 24-26, 2012, pp. 1478-1485, ISSN: 1842-0133 (ISI Proceedings, IEEE Xplore, WOS:000398866700225). <a href="http://ieeexplore.ieee.org/document/6231764/">http://ieeexplore.ieee.org/document/6231764/</a>	5
32	<b>Itu, L. M.</b> , Sharma, P., Mihalef, V., Kamen, A., Suciu, C., Comaniciu, D., <i>A Patient-specific Reduced-order Model for Coronary Circulation</i> , Proc. of the IEEE Inter. Symp. On Biomedical Imaging - ISBI 2012, Barcelona, Spain, May 2-5, 2012, pp. 832-835, ISSN: 1945-7928, ISBN: 978-1-4577-1857-1 (ISI Proceedings, IEEE Xplore, WOS:000312384100209). <a href="http://ieeexplore.ieee.org/document/6235677/">http://ieeexplore.ieee.org/document/6235677/</a>	5
33	<b>Itu, L.M.</b> , Suciu, C., Postelnicu, A., Moldoveanu, F., <i>Analysis of Outflow Boundary Condition Implementations for 1D Blood Flow Models</i> , Proceedings of the 3rd IEEE International Conference on e-Health and Bioengineering – EHB 2011, Iași, Romania, November 24-26, 2011, pp. 467-470, ISBN: 978-1-4577-0292-1 (ISI Proceedings, IEEE Xplore, WOS:000304806300095). <a href="http://ieeexplore.ieee.org/document/6150403/">http://ieeexplore.ieee.org/document/6150403/</a>	7.5
34	<b>Itu, L.M.</b> , Margineanu, I., Cobeanu, I., Gîrbea, A., <i>Positioning Systems for Geodesic Monitoring Devices</i> , Proc. of the 9th RoEduNet Inter. Conf. – RoEduNet 2010, Sibiu, Romania, June 24-26, 2010, pp. 67-72, ISSN: 2068-1038 (ISI Proceedings, IEEE Xplore, WOS:000290548400010) <a href="http://ieeexplore.ieee.org/document/5541598/">http://ieeexplore.ieee.org/document/5541598/</a>	7.5
35	Cobeanu, I., Margineanu, I., Catrinescu, C., <b>Itu, L.M.</b> , <i>WLAN Roaming Wireless Simulator</i> , Proc. of the 12th Inter. Conf. on Optimization of Electrical and Electronic Equipment - OPTIM 2010, Brasov, Romania, May 20-22, 2010, pp. 825-830, ISBN: 978-973-131-028-2 (ISI Proceedings, IEEE Xplore, WOS:000291967300119). <a href="http://ieeexplore.ieee.org/document/5510459/">http://ieeexplore.ieee.org/document/5510459/</a>	7.5
<b>13 lucrări în reviste cotate ISI, 22 lucrări în volumele unor manifestări științifice indexate ISI proceedings</b>		
		<b>361.81 pct.</b>

**Total A2.1 : 361.81 puncte (35 lucrări)**

## A2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI) (20 / nr.de autor)

Nr. crt.	Lucrare	Pct.
1	Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., <b>Itu, L.M.</b> , Lazar, L., Carp, M., Itu, A., Suciuc, C., Passerini, T., Sharma, S., Georgescu, B., Comaniciu, D., <i>From rest to hyperaemia: initial validation of a data-driven approach for functional assessment of coronary lesions</i> , Proc. of EuroPCR 2016, Paris, France, May 17-20, 2016 (PCR Online). <a href="https://www.pcronline.com/eurointervention/AbstractsEuroPCR2016_issue/abstracts-europcr-2016/Euro16A-POS0432/from-rest-to-hyperaemia-initial-validation-of-a-data-driven-approach-for-functional-assessment-of-coronary-lesions.html">https://www.pcronline.com/eurointervention/AbstractsEuroPCR2016_issue/abstracts-europcr-2016/Euro16A-POS0432/from-rest-to-hyperaemia-initial-validation-of-a-data-driven-approach-for-functional-assessment-of-coronary-lesions.html</a>	1.33
2	Tache, I. A., <b>Itu, L.M.</b> , Niculescu, R. <i>Transit Time Estimations from Coronary Angiograms</i> , Proc. of the 18th Inter. Conf. on System Theory, Control and Computing - ICSTCC 2014, Sinaia, Romania, October 15-17, 2014, pp. 10-15, ISBN: 978-1-4799-4602-0 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/6982533/">http://ieeexplore.ieee.org/document/6982533/</a>	6.67
3	Vizitiu, A., <b>Itu, L.M.</b> , Lazar, L., Suciuc, C. <i>Double precision stencil computations on Kepler GPUs</i> , Proc. of the 18th Inter. Conf. on System Theory, Control and Computing - ICSTCC 2014, Sinaia, Romania, October 15-17, 2014, pp., 25-29, ISBN: 978-1-4799-4602-0 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/6982402/">http://ieeexplore.ieee.org/document/6982402/</a>	5
4	Niță, C., <b>Itu, L. M.</b> , Suciuc, C. <i>GPU Accelerated Fluid Flow Computations using the Lattice Boltzmann Method</i> , Bulletin of the Transilvania University of Brasov - Series I, Engineering Sciences, Vol. 55, pp. 67–74, 2013, ISSN: 2065-2119 (EBSCO). <a href="http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=20652119&amp;AN=91515665&amp;h=lpT8Fcaa0mc%2fytUkasiY9yeTe4%2bBzBg9Wq2zNNLVhd3Twx3YCTMFdQcFTO7mn8v3G5XJyhtbVWcA4UemJeQ6w%3d%3d&amp;cr=f&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrl%3d20652119%26AN%3d91515665">http://web.a.ebscohost.com/abstract?direct=true&amp;profile=ehost&amp;scope=site&amp;authtype=crawler&amp;jrnl=20652119&amp;AN=91515665&amp;h=lpT8Fcaa0mc%2fytUkasiY9yeTe4%2bBzBg9Wq2zNNLVhd3Twx3YCTMFdQcFTO7mn8v3G5XJyhtbVWcA4UemJeQ6w%3d%3d&amp;cr=f&amp;resultNs=AdminWebAuth&amp;resultLocal=ErrCrlNotAuth&amp;crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrl%3d20652119%26AN%3d91515665</a>	5,06
5	Mihalef, V., Rapaka, S., Gulsun, M., Scorza, A., Sharma, P., <b>Itu, L. M.</b> , Kamen, A., Barker, A., Markl, M., Comaniciu, D., <i>Model Based Estimation of 4D Relative Pressure Map from 4D Flow MR Images</i> , Statistical Atlases and Computational Models of the Heart. Imaging and Modelling Challenges, Lecture Notes in Computer Science, Ed. Springer, Vol. 8330, 2013, pp. 236-243, ISBN 978-3-642-54267-1 (Springerlink). <a href="https://link.springer.com/chapter/10.1007/978-3-642-54268-8_28">https://link.springer.com/chapter/10.1007/978-3-642-54268-8_28</a>	2
6	<b>Itu, L.M.</b> , Suciuc, C., Moldoveanu, F., Postelnicu, A., <i>GPU Enhanced Stream-Based Matrix Multiplication</i> , Bulletin of the Transilvania University of Braşov, Vol. 5(54), No. 2, 2012, Series I, Engineering Sciences, Electrical Engineering, Electronics and Automatics, pp. 79÷86, ISSN: 2065-2119 (EBSCO). <a href="https://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=wHCtHCgAAAAJ&amp;sortBy=pubdate&amp;citation_for_view=wHCtHCgAAAAJ:aqIVkmm33-oC">https://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=wHCtHCgAAAAJ&amp;sortBy=pubdate&amp;citation_for_view=wHCtHCgAAAAJ:aqIVkmm33-oC</a>	5
7	<b>Itu, L. M.</b> , Sharma, P., Gulsun, M. A., Mihalef, V., Kamen, A., Greiser, A., <i>Determination of Time-varying Pressure Field from Phase Contrast MRI Data</i> , Journal of Cardiovascular Magnetic Resonance, Vol. 14, February 2012, pp. 36, ISSN: 1097-6647, DOI: 10.1186/1532-429X-14-S1-W36 (US National Library of Medicine). <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3305733/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3305733/</a>	5
8	<b>Itu, L.M.</b> , Suciuc, C., Moldoveanu, F., Postelnicu, A., <i>GPU Optimized Computation of the Artificial Compressibility Method</i> , Proceedings of the 15th International Conference on System Theory, Control and Computing – ICSTCC 2011, Sinaia, Romania, October 14÷16, 2011, pp. 282÷287, ISBN: 978-973-621-322-9, ISSN: 2068-0465 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/6085655/">http://ieeexplore.ieee.org/document/6085655/</a>	5
9	<b>Itu, L.M.</b> , Suciuc, C., Moldoveanu, F., Postelnicu, A., <i>GPU Accelerated Simulation of Elliptic Partial Differential Equations</i> , Proceedings of the 6th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications – IDAACS' 11, Prague, Czech Republic, September 15÷17, 2011, pp. 238÷242, ISBN: 978-1-4577-1426-9, DOI: 10.1109/DAACS.2011.6072748 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/6072748/">http://ieeexplore.ieee.org/document/6072748/</a>	5



10	<b>Itu, L.M.</b> , Suciu, C., Moldoveanu, F., Postelnicu, A., <i>Comparison of Single and Double Floating Point Precision Performance for Tesla Architecture GPUs</i> , Bulletin of the Transilvania University of Braşov, Vol. 4(53), No. 2, 2011, Series I, Engineering Sciences, Electrical Engineering, Electronics and Automatics, pp. 131÷138, ISSN: 2065-2119 (EBSCO). <a href="https://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=wHCtHCgAAAAJ&amp;scstart=20&amp;sortby=pubdate&amp;citation_for_view=wHCtHCgAAAAJ:4DMP91E08xMC">https://scholar.google.ro/citations?view_op=view_citation&amp;hl=en&amp;user=wHCtHCgAAAAJ&amp;scstart=20&amp;sortby=pubdate&amp;citation_for_view=wHCtHCgAAAAJ:4DMP91E08xMC</a>	5
11	<b>Itu, L.M.</b> , Suciu, C., Moldoveanu, F., Postelnicu, A., <i>Optimized GPU Based Simulation of the Incompressible Navier-Stokes Equations on a MAC Grid</i> , Proceedings of the 10th IEEE RoEduNet International Conference on Networking in Education and Research – RoEduNet'11, Iaşi, Romania, June 23÷25, 2011, pp. 82÷85, ISBN: 978-1-4577-1233-3, ISSN: 2068-1038 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/5993692/">http://ieeexplore.ieee.org/document/5993692/</a>	5
12	<b>Itu, L.M.</b> , Suciu, C., Moldoveanu, F., Postelnicu, A., <i>GPU Optimized Computation of Stencil Based Algorithms</i> , Proceedings of the 10th IEEE RoEduNet International Conference on Networking in Education and Research – RoEduNet'11, Iaşi, Romania, June 23÷25, 2011, pp. 86÷91, ISBN: 978-1-4577-1233-3, ISSN: 2068-1038 (IEEE Xplore). <a href="http://ieeexplore.ieee.org/document/5993693/">http://ieeexplore.ieee.org/document/5993693/</a>	5
13	<b>Itu, L.M.</b> , Margineanu, I., <i>Geodesic Monitoring Systems: A Critical Analysis of Instruments and Sensors Used</i> , Bulletin of the Transilvania University of Brasov - Series I Engineering Sciences, July, 2010, Vol. 52, pp. 251-259, ISSN: 2065-2119 (Google Scholar). <a href="https://scholar.google.ro/scholar?hl=en&amp;q=Geodesic+Monitoring+Systems%3A+A+Critical+Analysis+of+Instruments+and+Sensors+Used&amp;btnG=&amp;as_sdt=1%2C5&amp;as_sdtp=">https://scholar.google.ro/scholar?hl=en&amp;q=Geodesic+Monitoring+Systems%3A+A+Critical+Analysis+of+Instruments+and+Sensors+Used&amp;btnG=&amp;as_sdt=1%2C5&amp;as_sdtp=</a>	10
14	Mărgineanu, I., <b>Itu, L.M.</b> , <i>Gap Determination for Clinker Preparation Kilns</i> , Recent, România, Vol. 10, July, 2009, pp. 127-130, ISSN: 1582-0246 (Google Scholar). <a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=en&amp;user=6azBRUAAAAAJ&amp;scstart=20&amp;citation_for_view=6azBRUAAAAAJ:YOpCki6q_DkC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=en&amp;user=6azBRUAAAAAJ&amp;scstart=20&amp;citation_for_view=6azBRUAAAAAJ:YOpCki6q_DkC</a>	10
15	Margineanu, I., <b>Itu, L.M.</b> , <i>The Automation of the Unloading or Recycling Process of the Fly Ash from the Silos in Cement Mills</i> , Bulletin of the Transilvania University of Brasov - Series I Engineering Sciences, July, 2009, Vol. 51, pp. 287-292, ISSN: 2065-2119 (EBSCO). <a href="http://connection.ebscohost.com/c/articles/52551788/automation-unloading-recycling-process-fly-ash-from-silos-cement-mills">http://connection.ebscohost.com/c/articles/52551788/automation-unloading-recycling-process-fly-ash-from-silos-cement-mills</a>	10
<b>15 lucrări în reviste și volumele unor manifestări științifice indexate BDI</b>		<b>80.00 pct.</b>

**Total A2.2 : 80.00 puncte (15 lucrări)**

### **A2.3. Proprietate intelectuală, brevete de invenție, certificate ORDA**

A2.3.1. Internaționale (35 pct./ nr. autori)

Nr. crt.	Brevet	Pct.
1	<b>Itu, L.M.</b> , Passerini, T., Sharma, P., Redel, T. <i>Method and System for Enhancing Medical Image-Based Blood Flow Computations Using Physiological Measurements</i> , US Patent Application US 20170032097, February 2017. <a href="https://www.google.com/patents/US20170032097">https://www.google.com/patents/US20170032097</a>	8.75
2	Georgescu, B., <b>Itu, L.M.</b> , Kamen, A., Mansi, T., Mihalef, V., Passerini, T., Rapaka, S., Sharma, P. <i>Three-dimensional quantitative heart hemodynamics in medical imaging</i> , US Patent Application 20160228190 A1, August 2016. <a href="https://www.google.com/patents/US20160228190">https://www.google.com/patents/US20160228190</a>	4.37

3	Mansi, T., <b>Itu, L.M.</b> , Mihalef, V., Neumann, D., Passerini, T., Sharma, P., Comaniciu, D. <i>Personalized whole-body circulation in medical imaging</i> , US Patent Application 20160196384, July 2016. <a href="https://www.google.com/patents/US20160196384">https://www.google.com/patents/US20160196384</a>	5
4	<b>Itu, L.M.</b> , Passerini, T., Sharma, P. <i>Method and System for Personalized Non-Invasive Hemodynamic Assessment of Renal Artery Stenosis from Medical Images</i> , US Patent Application US 20160166209 A1, June 2016. <a href="https://www.google.com/patents/US20160166209">https://www.google.com/patents/US20160166209</a>	11.67
5	<b>Itu, L.M.</b> , Passerini, T., Rapaka, S., Schwemmer, C., Schöbinger, M., Sharma, P. <i>Method and system for purely geometric machine learning based fractional flow reserve</i> , World Patent Application WO 2016075331, May 2016. <a href="http://google.com/patents/WO2016075331A2?cl=en">http://google.com/patents/WO2016075331A2?cl=en</a>	5.83
6	<b>Itu, L.M.</b> , Passerini, T., Rapaka, S., Sharma, P., Schwemmer, C., Schoebinger, M., Redel, T., Comaniciu, D. <i>Synthetic data-driven hemodynamic determination in medical imaging</i> , US Patent Application US20160148372, May 2016. <a href="https://www.google.ch/patents/US20160148371">https://www.google.ch/patents/US20160148371</a>	4.37
7	<b>Itu, L.M.</b> , Sharma, P., Sauer, F. <i>Method and system for prediction of post-stenting hemodynamic metrics for treatment planning of arterial stenosis</i> , European Patent Application EP 2963574 A3, January 2016. <a href="https://www.google.ch/patents/EP2963574A3?cl=en">https://www.google.ch/patents/EP2963574A3?cl=en</a>	11.67
8	Sharma, P., <b>Itu, L.M.</b> , Rapaka, S., Sauer, F. <i>System and method for mapping patient data from one physiological state to another physiological state</i> , European Patent Application, EP 2949268 A1, Dec. 2015. <a href="https://www.google.ch/patents/EP2949268A1?cl=en">https://www.google.ch/patents/EP2949268A1?cl=en</a>	8.75
9	<b>Itu, L.M.</b> , Sharma, P., Redel, T., Georgescu, B. <i>Method and System for Non-Invasive Computation of Hemodynamic Indices for Coronary Artery Stenosis</i> , US Patent Application 61990775, November 2015. <a href="http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&amp;Sect2=HITOFF&amp;d=PG01&amp;p=1&amp;u=%2Fnetacgi/nph-um.html&amp;r=1&amp;f=G&amp;l=50&amp;s1=%2220150324962%22.PG.NR.&amp;OS=DN/20150324962&amp;RS=DN/20150324962">http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&amp;Sect2=HITOFF&amp;d=PG01&amp;p=1&amp;u=%2Fnetacgi/nph-um.html&amp;r=1&amp;f=G&amp;l=50&amp;s1=%2220150324962%22.PG.NR.&amp;OS=DN/20150324962&amp;RS=DN/20150324962</a>	8.75
10	Sharma, P., <b>Itu, L.M.</b> <i>Method and system for non-invasive functional assessment of coronary artery stenosis using flow computations in diseased and hypothetical normal anatomical models</i> , World Patent Application PCT/US2015/025853, November 2015. <a href="https://www.google.com/patents/WO2015171276A1?cl=en">https://www.google.com/patents/WO2015171276A1?cl=en</a>	17.5
11	Sharma, P., <b>Itu, L.M.</b> <i>Method and system for hemodynamic computation in coronary arteries</i> , World Patent Application WO/2015/164086, September 2015. <a href="https://patentscope.wipo.int/search/en/detail.jsf?jsessionid=775112ED94391EFC29C935EC30AF89D4.wapp1nB?docId=WO2015164086&amp;recNum=17&amp;office=&amp;queryString=&amp;prevFilter=%26fq%3DOF%3AWO%26fq%3DICF_M%3A%22G06F%22%26fq%3DPAF_M%3A%22SIEMENS+AKTIENGESELLSCHAFT%22&amp;sortOption=Pub+Date+Desc&amp;maxRec=1187">https://patentscope.wipo.int/search/en/detail.jsf?jsessionid=775112ED94391EFC29C935EC30AF89D4.wapp1nB?docId=WO2015164086&amp;recNum=17&amp;office=&amp;queryString=&amp;prevFilter=%26fq%3DOF%3AWO%26fq%3DICF_M%3A%22G06F%22%26fq%3DPAF_M%3A%22SIEMENS+AKTIENGESELLSCHAFT%22&amp;sortOption=Pub+Date+Desc&amp;maxRec=1187</a>	17.5
12	<b>Itu, L.M.</b> , Sharma, P., Kamen, A., Comaniciu, D. <i>Patient-specific automated tuning of boundary conditions for distal vessel tree</i> , US Patent Application US 14/167,120, August 2014. <a href="https://www.google.com/patents/US20140236547">https://www.google.com/patents/US20140236547</a>	8.75
13	<b>Itu, L.M.</b> , Sharma, P., Kamen, A., Comaniciu, D., <i>Viscoelastic modeling of blood vessels</i> , US Patent Application US 14/025,039, May 2014. <a href="https://www.google.com/patents/US20140088935">https://www.google.com/patents/US20140088935</a>	8.75
14	Sharma P., Zheng, X., Kamen, A., <b>Itu, L.M.</b> , Georgescu, B., Comaniciu, D. <i>Computation of Hemodynamic Quantities From Angiographic Data</i> , US Patent Application US 13/937,313, January 2014.	3.5

	<a href="https://www.google.com/patents/US20140024932">https://www.google.com/patents/US20140024932</a>	
15	<b>Itu, L.M.</b> , Sharma, P., Zheng, X., Kamen, A., Suci, C., Comaniciu, D., <i>A Framework for Personalization of Coronary Flow Computations During Rest and Hyperemia</i> , World Patent Application WO/2013/138428, September 2013. <a href="https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2013138428">https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2013138428</a>	5.83
16	Ralovich, K., <b>Itu, L.M.</b> , Mihalef, V., Sharma, P., Ionasec, R.I., Vitanovski, D., Krawtschuk, W., Comaniciu, D., <i>Method and System for Hemodynamic Assessment of Aortic Coarctation from Medical Image Data</i> , US Patent Application 20130243294, September 2013. <a href="http://www.patentsencyclopedia.com/app/20130243294">http://www.patentsencyclopedia.com/app/20130243294</a>	4.38
17	Sharma, P., <b>Itu, L.M.</b> , Kamen, A., Georgescu, X., Zheng, Y., Tek, H., Comaniciu, D., Bernhardt, D., Vega-Higuera, F., Scheuring, M. <i>Method and System for Non-Invasive Functional Assessment of Coronary Artery Stenosis</i> , US Patent Application 20130246034, September 2013. <a href="http://www.patentsencyclopedia.com/app/20130246034">http://www.patentsencyclopedia.com/app/20130246034</a>	3.5
18	Sharma, P., <b>Itu, L.M.</b> , Georgescu, B., Mihalef, V., Kamen, A., Comaniciu, D., <i>Method and system for multi-scale anatomical and functional modeling of coronary circulation</i> , US Patent Application PCT/US2012/064604, May 2013. <a href="https://www.google.com/patents/WO2013071219A1?cl=en">https://www.google.com/patents/WO2013071219A1?cl=en</a>	5.83
		<b>144.7 pct.</b>

A2.3.2. Naționale (OSIM) (25 pct./ nr. autori)

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**Total A2.3 : 144.7 puncte**

#### **A2.4. Granturi / proiecte de cercetare câștigate prin competiție sau contracte cu agenți economici, în valoare de minimum 10.000 dolari USA echivalent încasați**

A2.4.1. Director/ responsabil

A2.4.1.1. Internaționale (20 x ani de desfășurare)

<b>Nr. crt.</b>	<b>Proiect</b>	<b>Pct.</b>
1	Contr. nr. 732907/2016-2019, program: Horizon 2020 (H2020) – <i>MHMD – My Health My Data</i> , finanțat de EU Commission. Beneficiar: Universitatea Transilvania din Brașov (partener).	60
2	Contr. nr. 8/2017/2017-2020, program: FLAG-ERA – <i>ITFoC – Information Technology: The Future of Cancer Treatment</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	60
3	Contr. nr. 10/2017/2017-2020, program: FLAG-ERA – <i>CONVERGENCE – Frictionless Energy Efficient Convergent Wearables for Healthcare and Lifestyle Applications</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	60
		<b>180 pct.</b>

A2.4.1.2. Naționale (10 x ani de desfășurare)

Nr. crt.	Proiect	Pct.
1.	Contr. nr. 145PED/2017./2017-2018, program PNIII: Programul 2 - Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare – <i>Image-based functional assessment of renal artery stenosis using Computer Tomography Angiography or routine X-ray Angiography</i> , finanțat de UEFISCDI. Beneficiar: Siemens SRL (partener).	15
2.	Contr. nr. 138PED/2017./2017-2018, program PNIII: Programul 2 - Cresterea competitivitatii economiei romanesti prin cercetare, dezvoltare si inovare – <i>Image-based functional assessment of complex coronary artery lesions using optical coherence tomography and routine angiography</i> , finanțat de UEFISCDI. Beneficiar: Siemens SRL (partener).	15
		<b>30 pct.</b>

## A2.4.2. Membru în echipă

## A2.4.2.1. Internaționale (4 x ani de desfășurare)

Nr. crt.	Proiect	Pct.
1	Contr. nr. 600932/2013-2017, program: EU's Seventh Framework Programme for Research (FP7) – <i>MD PAEDIGREE – Model-Driven European Paediatric Digital Repository</i> , finanțat de EU Commission. Beneficiar: Universitatea Transilvania din Brașov (partener).	16
2	Contr. nr. 6/2017/2017-2020, program: FLAG-ERA – RoboCom++ – <i>Rethinking Robotics for the Robot Companion of the future</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	12
3	Contr. nr. 11/2017/2017-2020, program: FLAG-ERA – FuturICT2.0 – <i>Large scale experiments and simulations for the second generation of FuturICT</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	12
		<b>40 pct.</b>

## A2.4.2.2. Naționale (2 x ani de desfășurare)

Nr. crt.	Proiect	Pct.
1.	Contr. nr. 130/2012-2016, PN II, program: Programul PARTENERIATE – Proiecte Colaborative de Cercetare Aplicativă (PCCA) – <i>HEART – High PErformance Computing of PersonAlized CaRdio Component Models</i> , finanțat de UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (coordonator).	8
		<b>8 pct.</b>

**Total A2.4 : 258 puncte**

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<b>Total A2 : 826,96 puncte</b>
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Indicator	Conditii minimale – Profesor	Realizat
A2 - Activitatea de cercetare	500	844.51
A2.1 - Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	12	35
A2.4.1 - Granturi/proiecte câștigate prin competiție (Director/responsabil )	2	5

FI cumulat pentru publicatii 119.45:

- reviste cotate ISI: 106.70;
- brevete: 9.0 (18 brevete x 0.5 FI echivalent).;
- volumele conferințelor ISI: 3.75 (15 lucrări x 0.25 FI echivalent).

Șef lucr. dr. ing. Lucian Mihai Itu

### A3. Recunoașterea și impactul activității

#### A3.1. Citări în cărți, reviste și volume ale unor manifestări științifice

##### A3.1.1. Cărți, ISI (8 pct. / nr. autori art. citat)

Nr. crt.	Lucrarea citată
1	<p><b>Itu, L. M.</b>, Sharma, P., Ralovich, K., Mihalef, V., Ionasec, R., Everett, A., Ringel, R., Kamen, A., Comaniciu, D., <i>Non-invasive Hemodynamic Assessment of Aortic Coarctation: Validation with in-vivo Measurements</i>, Annals of Biomedical Engineering, Vol. 41, April, 2013, pp. 669-681, ISSN: 1573-9686, DOI: 10.1007/s10439-012-0715-0.  <b>Link lista citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=13614050505404463868">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=13614050505404463868</a></p>
<b>Citări</b>	
1.1	<p>Guibert, R., McLeod, K., Caiazzo, A., Mansi, T., Fernández, M.A., Sermesant, M., Pennec, X., Vignon-Clementel, I.E., Boudjemline, Y., Gerbeau, J.F. <i>Group-wise construction of reduced models for understanding and characterization of pulmonary blood flows from medical images</i>, Medical Image Analysis, Vol. 18, pp. 63-82, 2014 (WOS:000332194600015).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/24148257">https://www.ncbi.nlm.nih.gov/pubmed/24148257</a></p>
1.2	<p>Lee, J.J., D'Ancona, G., Amaducci, A., Follis, F., Pilato, M., Pasta, S. <i>Role of computational modeling in thoracic aortic pathology: a review</i>, Journal of Cardiovascular Surgery, Vol. 29, pp. 653-662, 2014 (WOS:000342851100016).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/25080972">https://www.ncbi.nlm.nih.gov/pubmed/25080972</a></p>
1.3	<p>Rinaudo, A., D'Ancona, G., Baglini, R., Amaducci, A., Follis, F., Pilato, M., Pasta, S. <i>Computational fluid dynamics simulation to evaluate aortic coarctation gradient with contrast-enhanced CT</i>, Computer Methods in Biomechanics and Biomedical Engineering, Vol. 18, pp. 1066-1071, 2015 (WOS:000346066300004).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/24460213">https://www.ncbi.nlm.nih.gov/pubmed/24460213</a></p>
1.4	<p>Goubergrits, L., Riesenkampff, E., Yevtushenko, P., Schaller, J., Kertzsch, U., Hennemuth, A., Berger, F., Schubert, S., Kuehne, T. <i>MRI-based computational fluid dynamics for diagnosis and treatment prediction: clinical validation study in patients with coarctation of aorta</i>, Journal of Magnetic Resonance Imaging, Vol. 41, pp. 909-916, 2015 (WOS:000351521700008).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/24723299">https://www.ncbi.nlm.nih.gov/pubmed/24723299</a></p>
1.5	<p>Goubergrits, L., Riesenkampff, E., Yevtushenko, P., Schaller, J., Kertzsch, U., Berger, F., Kuehne, T. <i>Is MRI-Based CFD Able to Improve Clinical Treatment of Coarctations of Aorta?</i>, Annals of Biomedical Engineering, Vol. 43, pp. 168-176, 2015 (WOS:000347689700014).  <a href="https://link.springer.com/article/10.1007/s10439-014-1116-3">https://link.springer.com/article/10.1007/s10439-014-1116-3</a></p>
1.6	<p>Soudah, E., Rossi, R., Idelsohn, S., Oñate, E. <i>A reduced-order model based on the coupled 1D-3D finite element simulations for an efficient analysis of hemodynamics problems</i>, Computational Mechanics, Vol. 54, pp. 1013-1022, 2014 (WOS:000341835300011).  <a href="https://link.springer.com/article/10.1007/s00466-014-1040-2">https://link.springer.com/article/10.1007/s00466-014-1040-2</a></p>
1.7	<p>Florea, O. <i>A novel approach for computing pressure drop in healthy and mildly stenosed arteries</i>, Proc. of the E-Health and Bioengineering Conference - EHB 2013, Iasi, Romania, November 2013, pp. 56-59 (WOS:000346672900176).  <a href="http://ieeexplore.ieee.org/document/6707408/">http://ieeexplore.ieee.org/document/6707408/</a></p>
<b>7 citări x 8 pct. / 9 autori = 6.22 pct.</b>	

2	<p><b>Itu, L. M.</b>, Sharma, P., Mihalef, V., Kamen, A., Suci, C., Comaniciu, D., <i>A Patient-specific Reduced-order Model for Coronary Circulation</i>, Proc. of the IEEE Inter. Symp. On Biomedical Imaging - ISBI 2012, Barcelona, Spain, May 2-5, 2012, pp. 832-835, ISSN: 1945-7928, ISBN: 978-1-4577-1857-1.  <b>Link listă citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=5167927570381871160">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=5167927570381871160</a></p>
	<b>Citări</b>
2.1	<p>Coenen, A., Lubbers, M.M., Kurata, A., Kono, A., Dedic, A., Chelu, R.G., Dijkshoorn, M.L., Gijzen, F.J., Ouhlous, M., van Geuns, R.J., Nieman, K. <i>Fractional flow reserve computed from noninvasive CT angiography data: diagnostic performance of an on-site clinician-operated computational fluid dynamics algorithm</i>, Radiology, Vol. 274, pp. 674-683, 2015 (WOS:000349990500006).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/25322342">https://www.ncbi.nlm.nih.gov/pubmed/25322342</a></p>
2.2	<p>Florea, O. <i>A novel approach for computing pressure drop in healthy and mildly stenosed arteries</i>, Proc. of the E-Health and Bioengineering Conference - EHB 2013, Iasi, Romania, November 2013, pp. 56-59 (WOS:000346672900176).  <a href="http://ieeexplore.ieee.org/document/6707408/">http://ieeexplore.ieee.org/document/6707408/</a></p>
2.3	<p>Baumann, S., Wang, R., Schoepf, U.J., Steinberg, D.H., Spearman, J.V., Bayer, R.R., Hamm, C.W., Renker, M. <i>Coronary CT angiography-derived fractional flow reserve correlated with invasive fractional flow reserve measurements--initial experience with a novel physician-driven algorithm</i>, European Radiology, Vol. 25, pp. 1201-7, 2015 (WOS:000351226500034).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/25403173">https://www.ncbi.nlm.nih.gov/pubmed/25403173</a></p>
2.4	<p>Renker, M., Wang, R., Schoepf, U.J., Spearman, J., Baumann, S. <i>A Novel Approach for Fractional Flow Reserve Derivation From Coronary Computed Tomographic Angiography</i>, Coronary Artery Disease, Vol. 26, pp. 279-280, 2015 (WOS:000352644300015).  <a href="http://journals.lww.com/coronary-artery/Citation/2015/05000/A_novel_approach_for_fractional_flow_reserve.15.aspx">http://journals.lww.com/coronary-artery/Citation/2015/05000/A_novel_approach_for_fractional_flow_reserve.15.aspx</a></p>
2.5	<p>De Geer, J., Sandstedt, M., Björkholm, A., Alfredsson, J., Janzon, M., Engvall, J., Persson, A. <i>Software-based on-site estimation of fractional flow reserve using standard coronary CT angiography data</i>, Acta Radiologica, Vol. 57, pp. 1186-1192, 2016.  <a href="https://www.ncbi.nlm.nih.gov/pubmed/26691914">https://www.ncbi.nlm.nih.gov/pubmed/26691914</a></p>
2.6	<p>Uus, A., Liatsis, P., Jawaid, M.M., Rajani, R., Benderskaya, E., <i>Assessment of stenosis introduced flow resistance in CCTA-reconstructed coronary arteries</i>, Proc. of the Inter. Conf. on Systems, Signals and Image Processing - IWSSIP 2015, November 2015, pp. 56-59 (WOS:000382967500007).  <a href="http://ieeexplore.ieee.org/document/7314238/">http://ieeexplore.ieee.org/document/7314238/</a></p>
2.7	<p>Nickisch, H., Lamash, Y., Prevrhal, S., Freiman, M., Vembar, M., Goshen, L., Schmitt, H. <i>Learning Patient-Specific Lumped Models for Interactive Coronary Blood Flow Simulations</i>, Proc. of the Inter. Conf. on Medical Image Computing and Computer-Assisted Intervention - MICCAI 2015, Munich, Germany, November 2015, pp. 433-441 (WOS:000366206800052).  <a href="https://link.springer.com/chapter/10.1007/978-3-319-24571-3_52">https://link.springer.com/chapter/10.1007/978-3-319-24571-3_52</a></p>
2.8	<p>Nakanishi, R., Budoff, M. <i>Noninvasive FFR derived from coronary CT angiography in the management of coronary artery disease: technology and clinical update</i>, Vascular Health and Risk Management, Vol. 12, pp. 269-278, 2016 (WOS:000383701200002).  <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4922813/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4922813/</a></p>
<b>8 citări x 8 pct. / 6 autori = 10.67 pct.</b>	

3	<p><b>Itu, L.M.</b>, Suci, C., Moldoveanu, F., Postelnicu, A., <i>GPU Optimized Computation of Stencil Based Algorithms</i>, Proceedings of the 10th IEEE RoEduNet International Conference on Networking in Education and Research – RoEduNet’11, Iași, Romania, June 23÷25, 2011, pp. 86÷91, ISBN: 978-1-4577-1233-3, ISSN: 2068-1038.  <b>Link listă citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=14884421068121842467">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=14884421068121842467</a></p>
	<b>Citări</b>
3.1	<p>Lutz, T., Fensch, C., Cole, M. <i>PARTANS: An autotuning framework for stencil computation on multi-GPU systems</i>, ACM Transactions on Architecture and Code Optimization, Vol. 9, pp. 25-37, 2013 (WOS:000313911800036).  <a href="http://dl.acm.org/citation.cfm?id=2400718">http://dl.acm.org/citation.cfm?id=2400718</a></p>

3.2	Konstantinidis, E., Cotronis, Y. <i>Graphics processing unit acceleration of the red/black SOR method</i> , Concurrency and Computation: Practice and Experience, Vol. 25, pp. 1107–1120, 2013 (WOS:000318042500008). <a href="http://onlinelibrary.wiley.com/doi/10.1002/cpe.2952/abstract">http://onlinelibrary.wiley.com/doi/10.1002/cpe.2952/abstract</a>
3.3	Girbea, A. <i>Optimization of a blasting process through a service-oriented architecture</i> , Proc. of the Inter. Conf. on Optimization of Electrical and Electronic Equipment - OPTIM 2014, Cheile Gradistei, Romania, May 2014, pp. 78-85 (WOS:000343551300112) (WOS:000343551300112). <a href="http://ieeexplore.ieee.org/document/6850919/">http://ieeexplore.ieee.org/document/6850919/</a>
3.4	El Maghrbay, M., Ammar, R., Rajasekaran, S. <i>Fast GPU algorithms for implementing the red-black Gauss-Seidel method for Solving Partial Differential Equations</i> , Proc. of the IEEE Symposium on Computers and Communications - ISCC 2013, Split, Croatia, July 2013, pp. 101-105 (WOS:000352089400042) <a href="http://ieeexplore.ieee.org/document/6754958/">http://ieeexplore.ieee.org/document/6754958/</a>
3.5	Cotronis, Y., Konstantinidis, E., Louka, M., Missirlis, N. <i>A comparison of CPU and GPU implementations for solving the Convection Diffusion equation using the local Modified SOR method</i> , Parallel Computing, Vol. 40, pp. 173–185, 2014. <a href="http://www.sciencedirect.com/science/article/pii/S0167819114000234">http://www.sciencedirect.com/science/article/pii/S0167819114000234</a>
3.6	Florea, O. <i>A novel approach for computing pressure drop in healthy and mildly stenosed arteries</i> , Proc. of the E-Health and Bioengineering Conference - EHB 2013, Iasi, Romania, November 2013, pp. 56-59 (WOS:000346672900176). <a href="http://ieeexplore.ieee.org/document/6707408/">http://ieeexplore.ieee.org/document/6707408/</a>
3.7	Vanderbauwhede, W., Takemi, T. <i>Twinned buffering: A simple and highly effective scheme for parallelization of Successive Over-Relaxation on GPUs and other accelerators</i> , Proc. of the Inter. Conf. on High Performance Computing & Simulation - HPCS 2015, Amsterdam, Netherlands, July 2015, pp. 67-70 (WOS:000375684100058). <a href="http://ieeexplore.ieee.org/document/7237073/">http://ieeexplore.ieee.org/document/7237073/</a>
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<b>8 citări x 8 pct. / 4 autori = 16 pct.</b>	

4	<b>Itu, L.M.</b> , Suciu, C., Moldoveanu, F., Postelnicu, A., <i>GPU Accelerated Simulation of Elliptic Partial Differential Equations</i> , Proceedings of the 6th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications – IDAACS’11, Prague, Czech Republic, September 15÷17, 2011, pp. 238÷242, ISBN: 978-1-4577-1426-9, DOI: 10.1109/DAACS.2011.6072748. <b>Link listă citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=8703056659655339341">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=8703056659655339341</a>
<b>Citări</b>	
4.1	Girbea, A. <i>Optimization of a blasting process through a service-oriented architecture</i> , Proc. of the Inter. Conf. on Optimization of Electrical and Electronic Equipment - OPTIM 2014, Cheile Gradistei, Romania, May 2014, pp. 78-85 (WOS:000343551300112). <a href="http://ieeexplore.ieee.org/document/6850919/">http://ieeexplore.ieee.org/document/6850919/</a>
4.2	Florea, O. <i>A novel approach for computing pressure drop in healthy and mildly stenosed arteries</i> , Proc. of the E-Health and Bioengineering Conference - EHB 2013, Iasi, Romania, November 2013, pp. 56-59 (WOS:000346672900176). <a href="http://ieeexplore.ieee.org/document/6707408/">http://ieeexplore.ieee.org/document/6707408/</a>
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4.4	ElMaghrbay, M., Ammar, R., Rajasekaran, S. <i>Fast GPU algorithms for implementing the red-black</i>



	<p><i>Gauss-Seidel method for Solving Partial Differential Equations</i>, Proc. of the IEEE Symposium on Computers and Communications - ISCC 2013, Split, Croatia, July 2013, pp. 101-105 (WOS:000352089400042).  <a href="http://ieeexplore.ieee.org/document/6754958/">http://ieeexplore.ieee.org/document/6754958/</a></p>
<b>4 citări x 8 pct. / 4 autori = 8 pct.</b>	
5	<p>Ralovich, K., <b>Itu, L.M.</b>, Mihalef, V., Sharma, P., Ionasec, R., Vitanovski, D., Krawtschuk, W., Everett, A., Ringel, R., Navab, N., Comaniciu D. <i>Hemodynamic assessment of pre- and post-operative aortic coarctation from MRI</i>, Proc. of Medical Image Computing and Computer Assisted Interventions – MICCAI 2012, Nice, France, Octoer 1-5, 2012, pp. 486-493, ISBN: 978-3-642-33417-7.  <b>Link listă citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=4112499729846354821">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=4112499729846354821</a></p>
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5.1	<p>Audigier, C., Mansi, T., Delingette, H., Rapaka, S., Mihalef, V., Sharma, P., Carnegie, D., Bector, E., Choti, M., Kamen, A., Comaniciu, D., Ayache, N. <i>Lattice Boltzmann method for fast patient-specific simulation of liver tumor ablation from CT images</i>, Proc. of the Medical Image Computing and Computer Assisted Interventions – MICCAI 2013, Vol. 16, pp. 323-330,, 2013 (WOS:000333633500041).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/24505777">https://www.ncbi.nlm.nih.gov/pubmed/24505777</a></p>
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5.5	<p>Mirzaee, H., Henn, T., Krause, M.J., Goubergrits, L., Schumann, C., Neugebauer, M., Kuehne, T., Preusser, T., Hennemuth, A. <i>MRI-based computational hemodynamics in patients with aortic coarctation using the lattice Boltzmann methods: Clinical validation study</i>, Journal of Magnetic Resonance Imaging, Vol. 45, pp. 139-146, 2017 (WOS:000393653500015).  <a href="https://www.ncbi.nlm.nih.gov/pubmed/27384018">https://www.ncbi.nlm.nih.gov/pubmed/27384018</a></p>
5.6	<p>Randles, A., Draeger, E., Michor, F. <i>Analysis of pressure gradient across aortic stenosis with massively parallel computational simulations</i>, Proc. of the Computing in Cardiology Conference - CINC 2014, Cambridge, USA, September 2014, pp. 7-10 (WOS:000370068300056).  <a href="http://ieeexplore.ieee.org/document/7043018/">http://ieeexplore.ieee.org/document/7043018/</a></p>
<b>6 citări x 8 pct. / 11 autori = 4.36 pct.</b>	
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<b>Citări</b>	
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Total A3.1.1 : 107.65 puncte (60 citări)

A3.1.2. BDI (4 pct. / nr. autori art. citat)

Nr. crt.	Lucrarea citată
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12	Tröbs, M., Achenbach, S., Röther, J., Redel, T., Scheuring, M., Winneberger, D., Klingenberg, K., <b>Itu, L.M.</b> , Passerini, T., Kamen, A., Sharma, P., Comaniciu, D., Schlundt, C., <i>Comparison of Fractional Flow Reserve Based on Computational Fluid Dynamics Modeling Using Coronary Angiographic Vessel Morphology versus Invasively Measured Fractional Flow Reserve</i> , The American Journal of Cardiology, Vol.117, Jan 2016, pp. 29-35, ISSN: 0002-9149, DOI: 10.1016/j.amjcard.2015.10.008. <b>Link listă citări:</b> <a href="https://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=15107893433025051403">https://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=15107893433025051403</a>
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13	<p><b>Itu, L.M.</b>, Suciu, C., Postelnicu, A., Moldoveanu, F., <i>Analysis of Outflow Boundary Condition Implementations for 1D Blood Flow Models</i>, Proceedings of the 3rd IEEE International Conference on e-Health and Bioengineering – EHB 2011, Iași, Romania, November 24÷26, 2011, pp. 467÷470, ISBN: 978-1-4577-0292-1.</p> <p><b>Link listă citări:</b> <a href="http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=13584251996965515040">http://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=13584251996965515040</a></p>
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13.1	<p>Jason Carson, J., Van Loon, R. <i>An implicit solver for 1D arterial network models</i>, International Journal for Numerical Methods in Biomedical Engineering, online first, 2016 (Wiley)</p> <p><a href="http://onlinelibrary.wiley.com/doi/10.1002/cnm.2837/abstract">http://onlinelibrary.wiley.com/doi/10.1002/cnm.2837/abstract</a></p>
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14	<p>Vizitiu, A., <b>Itu, L.M.</b>, Nita, C., Suciu, C. <i>Optimized Three-Dimensional Stencil Computation on Fermi and Kepler GPUs</i>, 18<sup>th</sup> IEEE High Performance Extreme Computing Conference, Waltham, MA, USA, Sept. 9-11, 2014, pp. 78-83, ISBN: 978-1-4799-6232-7.</p> <p><b>Link listă citări:</b> <a href="https://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=4342088436710668134">https://scholar.google.com/scholar?oi=bibs&amp;hl=en&amp;cites=4342088436710668134</a></p>
<b>Citări</b>	
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<b>1 citări x 4 pct. / 4 autori = 1 pct.</b>	

Total A3.1.2 : 20.05 puncte (27 citări)

**Total A3.1 : 127.7 puncte (87 citări)**

### **A3.2. Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat**

A3.2.1. Internaționale

-

A3.2.2. Naționale

-

### **A3.3. Membru în colectivele de redacție sau comitete științifice al revistelor, organizator de manifestări științifice, internaționale indexate ISI**

A3.3.1. ISI

-

A3.3.2. BDI

-

A3.3.3. Naționale și internaționale neindexate

-

**A3.4. Premii in domeniu**

A3.4.1. Academia Română, ASTR, academii de ramură, premii internaționale

Nr. crt.	Premiu
1	IEEE International Conference on Biomedical and Health Informatics 2014 – BHI 2014 2nd place Student Best Paper
<b>1 premiu x 15 pct. = 15 pct.</b>	

A3.4.2. Premii naționale in domeniu

-

<b>Total A3 : 142,7 puncte</b>
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Indicator	Conditii minimale – Profesor	Realizat
A3 - Recunoașterea impactului activității	100	142.7
A3.1.1 - A3.1.2 Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI sau BDI	20	87

Șef lucr. dr. ing. Lucian Mihai Itu