

Centralizator punctaj conform standardelor minimale pentru ocuparea posturilor de conferențiar universitar
COMISIA CALCULATORARE, TEHNOLOGIA INFORMATIEI SI INGINERIA SISTEMELOR

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

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

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

Indicator	Conditii minimale – Conferentiar	Realizat
A1 - Activitatea didactică / profesională	50	105
A1.1.1 - A1.1.2 Cărți și capitole în cărți de specialitate	2	4
A1.2.1 - Material didactic / Lucrări didactice	1	2
A2 - Activitatea de cercetare	250	844.51
A2.1 - Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	6	35
A2.4.1 - Granturi/proiecte câștigate prin competiție (Director/responsabil)	1	5
FI cumulat pentru publicatii	3	119.45
A3 - Recunoașterea impactului activității	50	142.7
A3.1.1 - A3.1.2 Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI sau BDI	10	87

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	Itu, L.M. , 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. http://www.springer.com/gp/book/9783319568522
1 lucrare x 25 pct. = 25 pct.	

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

Nr. crt.	Lucrare
1	Margineanu, I., Itu, L.M. , 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	Itu, L.M. , <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., Itu, L.M. , <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).
3 lucrări x 20 pct. = 60 pct.	

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., Itu, L.M. , 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., Itu, L.M. , <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).
2 lucrări x 10 pct. = 20 pct.	

Total A1.2 : 20 puncte (2 lucrări)

Total A1 : 105 puncte

Indicator	Conditii minimale – Conferențiar	Realizat
A1 - Activitatea didactică / profesională	50	105
A1.1.1 - A1.1.2 Cărți și capitole în cărți de specialitate	2	4
A1.2.1 - Material didactic / Lucrări didactice	1	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	Itu, L. M. , Sharma, P., Suci, 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). http://onlinelibrary.wiley.com/doi/10.1002/cnm.2803/abstract	13.77
2	Neumann, D., Mansi, T., Itu, L.M. , 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). http://www.sciencedirect.com/science/article/pii/S1361841516300214	8.37
3	Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., Itu, L.M. , Lazar, L., Carp, M., Itu, A., Suci, 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). http://www.sciencedirect.com/science/article/pii/S0735109716359861	28.19
4	Itu, L. M. , 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). https://www.ncbi.nlm.nih.gov/pubmed/27079692	10.22
5	Itu, L.M. , Passerini, T., Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Penes, D., Lazar, L., Carp, M., Itu, A., Suci, 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). http://www.sciencedirect.com/science/article/pii/S0735109716303291	28.19
6	Coenen, A., Lubbersa, M., Kurata, A., Kono, A., Dedic, A., Chelu, R., Dijkshoorn, M., van Geuns, R.J., Schoebinger, M., Itu, L.M. , 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). https://www.ncbi.nlm.nih.gov/pubmed/26747231	7.39
7	Tröbs, M., Achenbach, S., Röther, J., Redel, T., Scheuring, M., Winneberger, D., Klingenberg, K., Itu, L.M. , 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). https://www.ncbi.nlm.nih.gov/pubmed/26596195	
8	Calmac, L., Niculescu, R., Badila, E., Weiss, E., Zamfir, D., Itu, L.M. , Lazar, L., Carp, M., Itu, A., Suciu, 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). http://www.sciencedirect.com/science/article/pii/S0735109715050494	30.21
9	Ralovich, K., Itu, L.M. , 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). https://www.ncbi.nlm.nih.gov/pubmed/25979009	5.15
10	Itu, L. M. , Sharma, P., Passerini T., Kamen, A., D., Suciu, 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). http://www.sciencedirect.com/science/article/pii/S0021999114007165	13.41
11	Schlundt, C., Redel, T., Scheuering, M., Groke, D., Klingensbeck, K., Itu, L.M. , 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). http://www.sciencedirect.com/science/article/pii/S0735109714049201	42.29
12	Itu, L. M. , Sharma, P., Kamen, A., D., Suciu, 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). http://onlinelibrary.wiley.com/doi/10.1002/cnm.2585/abstract	13.77
13	Itu, L. M. , 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). https://link.springer.com/article/10.1007/s10439-012-0715-0	9.93
14	Nita, C., Stroia, I., Itu, L.M. , Suciu, C., Mihalef, V., Datar, M., Rapaka, S., Sharma, P. <i>GPU accelerated, robust method for voxelization of solid objects</i> , 20 th 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) http://ieeexplore.ieee.org/document/7761582/	3.75
15	Vizitiu, A., Itu, L. , Joyseeree, R., Depeursinge, A., Muller, H., Suciu, C. <i>GPU-Accelerated Texture Analysis Using Steerable Riesz Wavelets</i> , 24th Euromicro 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) http://ieeexplore.ieee.org/document/7445372/	5
16	Iacob, A., Itu, L.M. , Sasu, L., Moldoveanu, F., Suciu, 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) http://ieeexplore.ieee.org/document/7321404/	6
17	Stroia, I., Itu, L. , Niță, C., Lazăr, L., Suciu, 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) http://ieeexplore.ieee.org/document/7321289/	
18	Neumann, D., Mansi, T., Itu, L.M. , 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,). https://link.springer.com/chapter/10.1007/978-3-319-24571-3_53	2.5
19	Stroia, I., Itu, L. , Niță, C., Lazăr, L., Suciu, C. <i>GPU Accelerated Geometric Multigrid Method: Comparison with Preconditioned Conjugate Gradient</i> , 19 th 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) http://ieeexplore.ieee.org/document/7322480/	6
20	Nita, C., Itu, L. M. , 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). http://ieeexplore.ieee.org/document/7318524/	6
21	Vizitiu, A., Itu, L.M. , Nita, C., Suciu, C. <i>Optimized Three-Dimensional Stencil Computation on Fermi and Kepler GPUs</i> , 18 th 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) http://ieeexplore.ieee.org/document/7040968/	7.5
22	Itu, L. M. , Sharma, P., Georgescu, B., Kamen, A., D., Suciu, 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). https://www.ncbi.nlm.nih.gov/pubmed/25571551	5
23	Itu, L. M. , Suciu, 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). http://ieeexplore.ieee.org/document/6860049/	15
24	Itu, L. M. , Suciu, 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). http://ieeexplore.ieee.org/document/6864433/	15
25	Chen, W., Itu, L. M. , 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) http://ieeexplore.ieee.org/document/6867901/	7.5
26	Itu, L. M. , Sharma, P., Kamen, A., D., Suciu, 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). http://ieeexplore.ieee.org/document/6609603/	6
27	Ralovich, K., Itu, L.M. , 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

	https://www.ncbi.nlm.nih.gov/pubmed/23286084	
28	Niță, C., Itu, L. M. , Suciu, C. <i>GPU Accelerated Blood Flow Computation using the Lattice Boltzmann Method</i> , 17 th 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). http://ieeexplore.ieee.org/document/6670324/	10
29	Sharma, P., Itu, L. M. , 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). https://www.ncbi.nlm.nih.gov/pubmed/23367458	4.29
30	Itu, L. M. , 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) http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1717999	5
31	Itu, L.M. , 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). http://ieeexplore.ieee.org/document/6231764/	5
32	Itu, L. M. , 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). http://ieeexplore.ieee.org/document/6235677/	5
33	Itu, L.M. , 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, Iaşi, Romania, November 24÷26, 2011, pp. 467÷470, ISBN: 978-1-4577-0292-1 (ISI Proceedings, IEEE Xplore, WOS:000304806300095). http://ieeexplore.ieee.org/document/6150403/	7.5
34	Itu, L.M. , Margineanu, I., Cobeau, 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) http://ieeexplore.ieee.org/document/5541598/	7.5
35	Cobeau, I., Margineanu, I., Catrinescu, C., Itu, L.M. , <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). http://ieeexplore.ieee.org/document/5510459/	7.5
13 lucrări în reviste cotate ISI, 22 lucrări în volumele unor manifestări științifice indexate ISI proceedings		361.81 pct.

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., Itu, L.M. , Lazar, L., Carp, M., Itu, A., Suci, 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). 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	1.33
2	Tache, I. A., Itu, L.M. , 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). http://ieeexplore.ieee.org/document/6982533/	6.67
3	Vizitiu, A., Itu, L.M. , Lazar, L., Suci, 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). http://ieeexplore.ieee.org/document/6982402/	5
4	Niță, C., Itu, L. M. , Suci, 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). http://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=20652119&AN=91515665&h=lpTb8Fcaa0mc%2ftUkasiY9yeTe4%2bBzBg9Wq2zNNLVHd3Twx3YCTMFdQcFTO7mn8v3G5XJyhtbVWcA4UemJeQ6w%3d%3d&crl=f&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrl%3d20652119%26AN%3d91515665	5,06
5	Mihalef, V., Rapaka, S., Gulsun, M., Scorza, A., Sharma, P., Itu, L. M. , 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). https://link.springer.com/chapter/10.1007/978-3-642-54268-8_28	2
6	Itu, L.M. , Suci, 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). https://scholar.google.ro/citations?view_op=view_citation&hl=en&user=wHCtHCgAAAAJ&sortby=pubdate&citation_for_view=wHCtHCgAAAAJ:aqlVkmm33-oC	5
7	Itu, L. M. , 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). https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3305733/	5
8	Itu, L.M. , Suci, 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). http://ieeexplore.ieee.org/document/6085655/	5
9	Itu, L.M. , Suci, 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). http://ieeexplore.ieee.org/document/6072748/	5

Total A2.2 : 80.00 puncte (15 lucrări)

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

Nr. crt.	Brevet	Pct.
1	Itu, L.M. , 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. https://www.google.com/patents/US20170032097	8.75
2	Georgescu, B., Itu, L.M. , Kamen, A., Mansi, T., Mihalef, V., Passerini, T., Rapaka, S., Sharma, P. <i>Three-dementional quantitative heart hemodynamics in medical imaging</i> , US Patent Application 20160228190 A1, August 2016. https://www.google.com/patents/US20160228190	4.37

3	Mansi, T., Itu, L.M. , 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. https://www.google.com/patents/US20160196384	5
4	Itu, L.M. , 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. https://www.google.com/patents/US20160166209	11.67
5	Itu, L.M. , 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. http://google.com/patents/WO2016075331A2?cl=en	5.83
6	Itu, L.M. , 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. https://www.google.ch/patents/US20160148371	4.37
7	Itu, L.M. , 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. https://www.google.ch/patents/EP2963574A3?cl=en	11.67
8	Sharma, P., Itu, L.M. , 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. https://www.google.ch/patents/EP2949268A1?cl=en	8.75
9	Itu, L.M. , 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. http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PG01&p=1&u=%2Fnetacgi%2FPTO%2Fsrchnum.html&r=1&f=G&l=50&s1=%2220150324962%22.PGNR.&OS=DN/20150324962&RS=DN/20150324962	8.75
10	Sharma, P., Itu, L.M. <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. https://www.google.com/patents/WO2015171276A1?cl=en	17.5
11	Sharma, P., Itu, L.M. <i>Method and system for hemodynamic computation in coronary arteries</i> , World Patent Application WO/2015/164086, September 2015. https://patentscope.wipo.int/search/en/detail.jsf?sessionId=775112ED94391EFC29C935EC30AF89D4.wapp1nB?docId=WO2015164086&recNum=17&office=&queryString=&prevFilter=%26fq%3DOF%3AWO%26fq%3DICF_M%3A%22G06F%22%26fq%3DPAF_M%3A%22SIEMENS+AKTIENGESELLSCHAFT%22&sortOption=Pub+Date+Desc&maxRec=1187	17.5
12	Itu, L.M. , 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. https://www.google.com/patents/US20140236547	8.75
13	Itu, L.M. , Sharma, P., Kamen, A., Comaniciu, D., <i>Viscoelastic modeling of blood vessels</i> , US Patent Application US 14/025,039, May 2014. https://www.google.com/patents/US20140088935	8.75
14	Sharma P., Zheng, X., Kamen, A., Itu, L.M. , Georgescu, B., Comaniciu, D. <i>Computation of Hemodynamic Quantities From Angiographic Data</i> , US Patent Application US 13/937,313, January 2014.	3.5

	https://www.google.com/patents/US20140024932	
15	Itu, L.M. , 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. https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2013138428	5.83
16	Ralovich, K., Itu, L.M. , 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. http://www.patentsencyclopedia.com/app/20130243294	4.38
17	Sharma, P., Itu, L.M. , 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. http://www.patentsencyclopedia.com/app/20130246034	3.5
18	Sharma, P., Itu, L.M. , 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. https://www.google.com/patents/WO2013071219A1?cl=en	5.83
		144.7 pct.

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

-

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)

Nr. crt.	Proiect	Pct.
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 – ITFoC – <i>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 – CONVERGENCE – <i>Frictionless Energy Efficient Convergent Wearables for Healthcare and Lifestyle Applications</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	60
		180 pct.

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
		30 pct.

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 – <i>RoboCom++ – 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 – <i>FuturICT2.0 – Large scale experiments and simulations for the second generation of FuturICT</i> , finanțat de EU Commission / UEFISCDI. Beneficiar: Universitatea Transilvania din Brașov (partener).	12
		40 pct.

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
		8 pct.

Total A2.4 : 258 puncte

Total A2 : 826,96 puncte

Indicator	Conditii minimale – Conferențiar	Realizat
A2 - Activitatea de cercetare	250	844.51
A2.1 - Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	6	35
A2.4.1 - Granturi/proiecte câștigate prin competiție (Director/responsabil)	1	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>Itu, L. M., 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.</p> <p>Link lista citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=13614050505404463868</p>
	Citări
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).</p> <p>https://www.ncbi.nlm.nih.gov/pubmed/24148257</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).</p> <p>https://www.ncbi.nlm.nih.gov/pubmed/25080972</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).</p> <p>https://www.ncbi.nlm.nih.gov/pubmed/24460213</p>
1.4	<p>Goubergrits, L., Riesenkampff, E., Yevtushenko, P., Schaller, J., Kertzscher, 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).</p> <p>https://www.ncbi.nlm.nih.gov/pubmed/24723299</p>
1.5	<p>Goubergrits, L., Riesenkampff, E., Yevtushenko, P., Schaller, J., Kertzscher, 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).</p> <p>https://link.springer.com/article/10.1007/s10439-014-1116-3</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).</p> <p>https://link.springer.com/article/10.1007/s00466-014-1040-2</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).</p> <p>http://ieeexplore.ieee.org/document/6707408/</p>
7 citări x 8 pct. / 9 autori = 6.22 pct.	

2	<p>Itu, L. M., 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. Link listă citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=5167927570381871160</p>
	Citări
2.1	<p>Coenen, A., Lubbers, M.M., Kurata, A., Kono, A., Dedic, A., Chelu, R.G., Dijkshoorn, M.L., Gijzen, F.J., Ouhous, 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). https://www.ncbi.nlm.nih.gov/pubmed/25322342</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). http://ieeexplore.ieee.org/document/6707408/</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). https://www.ncbi.nlm.nih.gov/pubmed/25403173</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). http://journals.lww.com/coronary-artery/Citation/2015/05000/A_novel_approach_for_fractional_flow_reserve.15.aspx</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. https://www.ncbi.nlm.nih.gov/pubmed/26691914</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). http://ieeexplore.ieee.org/document/7314238/</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). https://link.springer.com/chapter/10.1007/978-3-319-24571-3_52</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). https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4922813/</p>
8 citări x 8 pct. / 6 autori = 10.67 pct.	

3	<p>Itu, L.M., 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. Link listă citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=14884421068121842467</p>
	Citări
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). http://dl.acm.org/citation.cfm?id=2400718</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). http://onlinelibrary.wiley.com/doi/10.1002/cpe.2952/abstract
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). http://ieeexplore.ieee.org/document/6850919/
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) http://ieeexplore.ieee.org/document/6754958/
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. http://www.sciencedirect.com/science/article/pii/S0167819114000234
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). http://ieeexplore.ieee.org/document/6707408/
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21	Itu, L.M. , 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. Link listă citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=18059576175138161800
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21.1	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). http://ieeexplore.ieee.org/document/6754958/
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22.1	Çimen, S., Gooya, A., Grass, M., Frangi, A.F., <i>Reconstruction of coronary arteries from X-ray angiography: A review</i> , Medical Image Analysis, Vol. 32, pp. 46-68, 2016. https://www.ncbi.nlm.nih.gov/pubmed/27054277
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23	Iacob, A., Itu, L.M. , Sasu, L., Moldoveanu, F., Suciu, 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 Grădiştei – Fundata, Romania, October 14–16, 2015, pp. 872–876, ISBN: 978-1-4799-8481-7. Link listă citări: https://scholar.google.com/scholar?oi=bibs&hl=en&cites=9041664599831048202
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23.1	Dunn, T., Banerjee, N.K., Banerjee, S. <i>GPU Acceleration of Document Similarity Measures for Automated Bug Triaging</i> , Proc. of the IEEE Inter. Symp. on Software Reliability Engineering Workshops - ISSREW 2016, Toulouse, France, December 2016, pp. 34-39 (WOS:000391391100029). http://ieeexplore.ieee.org/document/7789393/
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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
1	Itu, L. M. , 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. Link lista citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=13614050505404463868
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1.1	Butts, R., Do, T.B., Atz, A. <i>Standard Monitoring Techniques in the Pediatric Cardiac Intensive Care Unit</i> , Pediatric and Congenital Cardiology, Cardiac Surgery and Intensive Care, Vol. 1, pp. 821-834, 2014 (Springerlink). https://link.springer.com/referenceworkentry/10.1007%2F978-1-4471-4619-3_103
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2.2	Yang, D.H., Kim, Y.H., Roh, J.H., Kang, J.W., Ahn, J.M., Kweon, J., Lee, J.B., Choi, S.H., Shin, E.S., Park, D.W., Kang, S.J., Lee, S.W., Lee, C.W., Park, S.W., Park, S.J., Lim, T.H. <i>Diagnostic performance of on-site CT-derived fractional flow reserve versus CT perfusion</i> , European Heart Journal Cardiovascular Imaging, Vol. 18, pp. 432-440, 2017 (US National Library of Medicine). https://www.ncbi.nlm.nih.gov/pubmed/27354345
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10.1	Calore, E., Gabbana, A., Kraus, J., Pellegrini, E., Schifano, S.F., Tripiccione, R., <i>Massively parallel lattice-Boltzmann codes on large GPU clusters</i> , <i>Parallel Computing</i> , Vol. 58, pp. 1-24, 2016 (Sciencedirect). http://www.sciencedirect.com/science/article/pii/S0167819116300825
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12.1	Möllmann, H., Rieber, R., Eggebrecht, H., Richardt, G., Schmitz, T., Werner, N., Achenbach, S. <i>Fraktionelle Flussreserve in der Diagnostik der koronaren Herzerkrankung</i> , Der Kardiologe, Vol. 10, pp. 88-105, 2016 (Springerlink). https://link.springer.com/article/10.1007/s12181-016-0049-5
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13	<p>Itu, L.M., Suci, 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>Link listă citări: http://scholar.google.com/scholar?oi=bibs&hl=en&cites=13584251996965515040</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>http://onlinelibrary.wiley.com/doi/10.1002/cnm.2837/abstract</p>
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14.1	<p>Calore, E., Gabbana, A., Kraus, J., Pellegrini, E., Schifano, S.F., Tripiccione, R., <i>Massively parallel lattice-Boltzmann codes on large GPU clusters</i>, <i>Parallel Computing</i>, Vol. 58, pp. 1-24, 2016 (Sciencedirect)</p> <p>http://www.sciencedirect.com/science/article/pii/S0167819116300825</p>
1 citări x 4 pct. / 4 autori = 1 pct.	

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
1 premiu x 15 pct. = 15 pct.	

A3.4.2. Premii naționale in domeniu

-

Total A3 : 142,7 puncte

Indicator	Conditii minimale – Conferențiar	Realizat
A3 - Recunoașterea impactului activității	50	142.7
A3.1.1 - A3.1.2 Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI sau BDI	10	87

Șef lucr. dr. ing. Lucian Mihai Itu