

Fișa de calcul și de susținere a îndeplinirii standardelor minimale (decembrie 2020)
Dr. ing. Mihai Iulian FLOREA

A1 - Activitate didactică și profesională		
Total (A1)		0.00

A2 - Activitatea de cercetare		
A2.1 Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI	Factor de impact ISI sau echivalent	Punctaj
2020 Mihai I. Florea, Sergiy A. Vorobyov, "A Generalized Accelerated Composite Gradient Method: Uniting Nesterov's Fast Gradient Method and FISTA", IEEE Transactions on Signal Processing, vol. 68, pp. 3033–3048, Apr. 2020.	5.028	87.92
2019 Mihai I. Florea and Sergiy A. Vorobyov. "An Accelerated Composite Gradient Method for Large-Scale Composite Objective Problems", IEEE Transactions on Signal Processing, vol. 67, no. 2, pp. 444–459, Jan. 2019.	5.028	87.92
2018 Mihai I. Florea, Adrian Basarab, Denis Kouamé, and Sergiy A. Vorobyov, "An axially-variant kernel imaging model for ultrasound image reconstruction", IEEE Signal Processing Letters, vol. 25, no.7, pp. 961–965, Jul. 2018.	3.268	30.76
2018 Mihai I. Florea, Adrian Basarab, Denis Kouamé, and Sergiy A. Vorobyov, "Restoration of ultrasound images using spatially-variant kernel deconvolution", Proc. IEEE Intern. Conf. Acoust., Speech and Signal Process. (ICASSP), Calgary, AB, Canada, Apr. 2018, pp. 796–800.	0.75	11.88
2017 Mihai I. Florea and Sergiy A. Vorobyov, "A robust FISTA-like algorithm", Proc. IEEE Intern. Conf. Acoust., Speech and Signal Process. (ICASSP), New Orleans, LA, USA, Mar. 2017, pp. 4521–4525.	0.75	23.75
2009 Carlos A. Del Carpio, Mihai I. Florea, Ai Suzuki, Hideyuki Tsuboi, Nozomu Hatakeyama, Akira Endou, Hiromitsu Takaba, Eiichiro Ichiishi, and Akira Miyamoto, "A Graph Theoretical Approach for Assessing Bio-Macromolecular Complex Stability", Journal of Molecular Modeling, vol. 15, no. 11, pp. 1349–1370, 2009.	2.336	10.56
A2.4.2.1 Granturi sau proiecte câștigate prin competiție în calitate de membru în echipă - internaționale		Punctaj
2019 European Research Council (ERC) Advanced Grant 788368		20.00
Total (A2)		272.79

A3 - Recunoașterea și impactul activității		
A3.1.1 Citări în cărți, reviste și volume ale unor manifestări științifice - cărți, ISI	Citări	Punctaj
Citări ale articolului: Mihai I. Florea and Sergiy A. Vorobyov. "An Accelerated Composite Gradient Method for Large-Scale Composite Objective Problems", IEEE Transactions on Signal Processing, vol. 67, no. 2, pp. 444–459, Jan. 2019.		
2019 Calatroni, Luca, and Antonin Chambolle. "Backtracking strategies for accelerated descent methods with smooth composite objectives." SIAM Journal on Optimization 29.3 (2019): 1772-1798.	1	8.00
Citări ale articolului: Mihai I. Florea, Adrian Basarab, Denis Kouamé, and Sergiy A. Vorobyov, "An axially-variant kernel imaging model for ultrasound image reconstruction", IEEE Signal Processing Letters, vol. 25, no.7, pp. 961–965, Jul. 2018.		
2019 Besson, Adrien, et al. "A Physical Model of Nonstationary Blur in Ultrasound Imaging." IEEE Transactions on Computational Imaging 5.3 (2019): 381-394.	1	4.00
2019 Michailovich, Oleg, Adrian Basarab, and Denis Kouame. "Iterative reconstruction of medical ultrasound images using spectrally constrained phase updates." 2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI 2019). IEEE, 2019.	1	2.00
Citări ale articolului: Mihai I. Florea and Sergiy A. Vorobyov, "A robust FISTA-like algorithm", Proc. IEEE Intern. Conf. Acoust., Speech and Signal Process. (ICASSP), New Orleans, LA, USA, Mar. 2017, pp. 4521–4525.		
2020 Zeng, Shaoning, Bob Zhang, and Jianping Gou. "Learning double weights via data augmentation for robust sparse and collaborative representation-based classification." Multimedia Tools and Applications (2020): 1-22.	1	8.00
2018 Garcia-Cardona, Cristina, and Brendt Wohlberg. "Convolutional dictionary learning for multi-channel signals." 2018 52nd Asilomar Conference on Signals, Systems, and Computers. IEEE, 2018.	1	4.00
Citări ale articolului: Carlos A. Del Carpio, Mihai I. Florea, et al., "A Graph Theoretical Approach for Assessing Bio-Macromolecular Complex Stability", Journal of Molecular Modeling, vol. 15, no. 11, pp. 1349–1370, 2009.		
2012 Csermely, Peter, et al. "Disordered proteins and network disorder in network descriptions of protein structure, dynamics and function: hypotheses and a comprehensive review." Current Protein and Peptide Science 13.1 (2012): 19-33.	1	0.89
2013 Jagodzinski, Filip, et al. "Rigidity analysis of protein biological assemblies and periodic crystal structures." BMC bioinformatics 14.S18 (2013): S2.	1	0.89
2017 Hermans, Susanne MA, et al. "Rigidity theory for biomolecules: concepts, software, and applications." Wiley Interdisciplinary Reviews: Computational Molecular Science 7.4 (2017): e131	1	0.89
2011 Rath, Prakash C., et al. "Statics of biomacromolecules." Modeling of Molecular Properties (2011): 281-299	1	0.89
A3.1.2. Citări în cărți, reviste și volume ale unor manifestări științifice - BDI	Citări	Punctaj
Citări ale articolului: Mihai I. Florea and Sergiy A. Vorobyov. "An Accelerated Composite Gradient Method for Large-Scale Composite Objective Problems", IEEE Transactions on Signal Processing, vol. 67, no. 2, pp. 444–459, Jan. 2019.		
2020 Pokala, Praveen Kumar, and Chandra Sekhar Seelamantula. "Projected Improved Fista And Application To Image Deblurring." 2020 IEEE International Conference on Image Processing (ICIP). IEEE, 2020.	1	2.00

	Citări ale articolului: Mihai I. Florea, Adrian Basarab, Denis Kouamé, and Sergiy A. Vorobyov, "An axially-variant kernel imaging model for ultrasound image reconstruction", IEEE Signal Processing Letters, vol. 25, no.7, pp. 961–965, Jul. 2018.		
2020	Zhang, Lin, Valery Vishnevskiy, and Orcun Goksel. "Deep Network for Scatterer Distribution Estimation for Ultrasound Image Simulation." IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (2020).	1	1.00
2020	Pham, Duong-Hung, et al. "Joint Blind Deconvolution and Robust Principal Component Analysis for Blood Flow Estimation in Medical Ultrasound Imaging." IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (2020).	1	1.00
	Citări ale articolului: Mihai I. Florea, Adrian Basarab, Denis Kouamé, and Sergiy A. Vorobyov, "Restoration of ultrasound images using spatially-variant kernel deconvolution", Proc. IEEE Intern. Conf. Acoust., Speech and Signal Process. (ICASSP), Calgary, AB, Canada, Apr. 2018, pp. 796–800.		
2020	Aetesam, Hazique, and Suman K. Maji. "Ultrasound Image Deconvolution adapted to Gaussian and Speckle Noise Statistics." 2020 7th International Conference on Signal Processing and Integrated Networks (SPIN). IEEE, 2020.	1	1.00
	Citări ale articolului: Mihai I. Florea and Sergiy A. Vorobyov, "A robust FISTA-like algorithm", Proc. IEEE Intern. Conf. Acoust., Speech and Signal Process. (ICASSP), New Orleans, LA, USA, Mar. 2017, pp. 4521–4525.		
2019	Mohammad-Djafari, Ali. "Interaction between Model Based Signal and Image Processing, Machine Learning and Artificial Intelligence." Multidisciplinary Digital Publishing Institute Proceedings. Vol. 33. No. 1. 2019.	1	2.00
2019	Silva, Gustavo, and Paul Rodriguez. "FISTA: achieving a rate of convergence proportional to k-3 for small/medium values of k." 2019 27th European Signal Processing Conference (EUSIPCO). IEEE, 2019.	1	2.00
	Citări ale articolului: Carlos A. Del Carpio, Mihai I. Florea, et al., "A Graph Theoretical Approach for Assessing Bio-Macromolecular Complex Stability", Journal of Molecular Modeling, vol. 15, no. 11, pp. 1349–1370, 2009.		
2017	Del Carpio, C. A., and E. Ichiishi. "Inference of Protein Multimeric Complex Dynamic Order of Formation: An Active Region Recognition Based Approach." Int J Genom Data Min 1.116 (2017): 2577-0616.	1	0.44
2012	Clark, Pamela, et al. "Periodic rigidity of protein crystal structures." 2012 IEEE 2nd International Conference on Computational Advances in Bio and medical Sciences (ICCABS). IEEE, 2012.	1	0.44
	Citări ale articolului: Yurii Nesterov and Mihai I. Florea. "Gradient Methods with Memory", CORE Discussion Papers, 2019(22), 2019.		
2020	Hosseini, Seyed Amir Hossein, et al. "Dense recurrent neural networks for accelerated MRI: History-cognizant unrolling of optimization algorithms." IEEE Journal of Selected Topics in Signal Processing 14.6 (2020): 1280-1291.	1	2.00
	Citări ale tezei de master: Mihai I. Florea, "Automatic detection of honeybees in a hive", Uppsala University, 2013.		
2018	Bozek, Katarzyna, et al. "Towards dense object tracking in a 2D honeybee hive." Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition. 2018.	1	4.00
	A3.4 Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu		Punctaj
2019	Aalto University Dissertation Award		15.00
	Total (A3)		60.44
	Total (A)		333.23