

Total

**FISA INDEPLINIRE STANDARDE MINIMALE
PAUL IROFTI**

Perspectiva B

Total	71
Criterii Calitative	
A*+A+B+C>56	60
A*+A+B>40	44
A*+A>24	24,8

Perspectiva C

Total	562,2
Criterii Calitative	
Citări > 120	567
A*+A+B>40	480

Perspectiva D

Total	167
Criterii Calitative	
Total > 60	167
Minim un proiect cu echipa de cel putin doi membrii	3

Total perspective 800,2

PERSPECTIVA B

Nr	Articol	Categorie	Punctaj	Total	Total Prof
1	P. Irofti , „Pinky: A Modern Malware-oriented Dynamic Information Retrieval Tool,” <i>SecITC 2023</i> , pp 1-14, 2023 (accepted)	C	2	71	$A^*+A+B+C>56$
2	R. Bălucea, P. Irofti , „Software Mitigation of RISC-V Spectre Attacks,” <i>SecITC 2023</i> , pp 1-18, 2023 (accepted)	C	2		60
3	A. Stancu, P. Irofti , I. Leuştean, „OpenBSD formal driver verification with SeL4,” <i>SecITC</i> , pp 1-13, 2023 (accepted)	C	2		$A^*+A+B>40$
4	P. Irofti , L. Romero-Ben, F. Stoican, and V. Puig, “Learning Dictionaries from Physical-Based Interpolation for Water Network Leak Localization,” <i>IEEE Transactions on Control Systems Technology</i> , pp 1-12, 2023 (accepted, 10.1109/TCST.2023.3329696)	A	4		44
5	A. Pătraşcu and P. Irofti , “On finite termination of an inexact Proximal Point algorithm,” <i>Applied Mathematics Letters</i> , vol. 134, pp. 108348, 2022.	B	4		$A^*+A>24$
6	A. Pătraşcu and P. Irofti , “Stochastic proximal splitting algorithm for composite minimization,” <i>Optimization Letters</i> , 2020	B	4		24,8
7	P. Irofti , F. Stoican, and V. Puig, “Fault Handling in Large Water Networks with Online Dictionary Learning,” <i>Journal of Process Control</i> , vol. 94, pp. 46--57, 2020	A	8		
8	F. Stoican and P. Irofti , “Aiding Dictionary Learning Through Multi-Parametric Sparse Representation,” <i>Algorithms</i> , vol. 12, no. 7, pp. 131, 2019	C	2		
9	B. Dumitrescu and P. Irofti , “Regularized K-SVD,” <i>IEEE Signal Processing Letters</i> , vol. 24, no. 3, pp. 309-313, March 2017	A	8		
10	P. Irofti , “Efficient Parallel Implementation for Single Block Orthogonal Dictionary Learning,” <i>Journal of Control Engineering and Applied Informatics</i> , vol. 18, no. 3, pp. 101-108, 2016	C	2		
11	P. Irofti , “Efficient Dictionary Learning Implementation on the GPU Using OpenCL,” <i>U.P.B. Scientific Bulletin, Series C</i> , vol. 78, no. 3, pp. 39-50, 2016.	C	2		
12	P. Irofti , A. Pătraşcu, and A.I. Hîji, “Unsupervised Abnormal Traffic Detection through Topological Flow Analysis,” in 2022 14th International Conference on Communications (COMM). 2022, pp. 1--6, IEEE	D	1		

<p>P. Irofti, L. Romero-Ben, F. Stoican, and V. Puig, "Data-driven Leak Localization in Water Distribution Networks via Dictionary Learning and Graph-based Interpolation," in CCTA 2022 - 2022 IEEE International Conference on Control Technology and Applications (CCTA). 2022, pp. 1265--1270, IEEE.</p> <p>13</p>	<p>D</p>	<p>1</p>
<p>P. Irofti, C. Rusu, and A. Pătrașcu, "Dictionary Learning with Uniform Sparse Representations for Anomaly Detection," in ICASSP 2022 - 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). 2022, pp. 3378--3382, IEEE</p> <p>14</p>	<p>D</p>	<p>1</p>
<p>C. Rusu and P. Irofti, "Efficient and Parallel Separable Dictionary Learning," in Proceedings of the IEEE 2021 27th International Conference on Parallel and Distributed Systems (ICPADS). 2021, pp. 1--6, IEEE Computer Society.</p> <p>15</p>	<p>B</p>	<p>4</p>
<p>P. Irofti and A. Băltoiu, "Unsupervised Dictionary Learning for Anomaly Detection," in <i>International Traveling Workshop on Interactions Between Sparse Models and Technology</i>, 2020, pp. 1--3.</p> <p>16</p>	<p>D</p>	<p>1</p>
<p>A. Băltoiu, A. Pătrașcu, P. Irofti, "Graph Anomaly Detection Using Dictionary Learning", in The 21st World Congress of the International Federation of Automatic Control, 2020, pp. 1-6.</p> <p>17</p>	<p>C</p>	<p>2</p>
<p>P. Irofti and A. Băltoiu, "Malware Identification with Dictionary Learning," in <i>27th European Signal Processing Conference</i>, 2019, pp. 1-5</p> <p>18</p>	<p>B</p>	<p>4</p>
<p>P. Irofti and B. Dumitrescu, "Pairwise Approximate K-SVD," in <i>Acoustics Speech and Signal Processing (ICASSP), 2019 IEEE International Conference on</i>, 2019, pp. 1-5.</p> <p>19</p>	<p>B</p>	<p>4</p>
<p>P. Irofti and F. Stoican, "Dictionary Learning Strategies for Sensor Placement and Leakage Isolation in Water Networks," in <i>The 20th World Congress of the International Federation of Automatic Control</i>, 2017, pp. 1589-1594.</p> <p>20</p>	<p>C</p>	<p>2</p>
<p>B. Dumitrescu and P. Irofti, "Low Dimensional Subspace Finding via Size-Reducing Dictionary Learning," in <i>2016 IEEE International Workshop on Machine Learning for Signal Processing (MLSP)</i>, 2016, pp. 1-6.</p> <p>21</p>	<p>D</p>	<p>1</p>
<p>P. Irofti, "The Effect of Atom Replacement Strategies on Dictionary Learning," in <i>International Traveling Workshop on Interactions Between Sparse Models and Technology</i>, 2016, pp. 10-11.</p> <p>22</p>	<p>D</p>	<p>1</p>

23	P. Irofti and B. Dumitrescu, "Overcomplete Dictionary Learning with Jacobi Atom Updates," in <i>39th International Conference on Telecommunications and Signal Processing</i> , 2016, pp. 421-424.	D	1
24	P. Irofti and B. Dumitrescu, "Regularized Algorithms for Dictionary Learning," in <i>2016 International Conference on Communications (COMM)</i> , 2016, pp. 439-442.	D	1
25	P. Irofti , "Sparse Denoising with Learned Composite Structured Dictionaries," in <i>19th International Conference on System Theory, Control and Computing</i> , 2015, pp. 331-336.	D	1
26	P. Irofti and B. Dumitrescu, "Cosparse Dictionary Learning for the Orthogonal Case," in <i>19th International Conference on System Theory, Control and Computing</i> , 2015, pp. 343-347.	D	1
27	P. Irofti and B. Dumitrescu, "Overcomplete Dictionary Design: the Impact of the Sparse Representation Algorithm," in <i>The 20th International Conference on Control Systems and Computer Science</i> , 2015, pp. 901-908.	D	1
28	P. Irofti and B. Dumitrescu, "GPU Parallel Implementation of the Approximate K-SVD Algorithm Using OpenCL," in <i>22nd European Signal Processing Conference</i> , 2014, pp. 271-275.	B	4

PERSPECTIVA C

Nr	Articol	citare	incadrare	punctaj	Observatii	Total
1.	<p>P. Irofti and B. Dumitrescu, "GPU Parallel Implementation of the Approximate K-SVD Algorithm Using OpenCL," in <i>22nd European Signal Processing Conference</i>, 2014, pp. 271-275.</p>	<p>Liang, Youwen, Yu Tian, and Mei Li. "Parallel transformation of K-SVD solar image denoising algorithm." <i>Second International Conference on Photonics and Optical Engineering</i>. Vol. 10256. International Society for Optics and Photonics, 2017. https://doi.org/10.1117/12.2256495</p>	D	1		567
		<p>He, Lu, et al. "Scalable 2D K-SVD parallel algorithm for dictionary learning on GPUs." <i>Proceedings of the ACM International Conference on Computing Frontiers</i>. ACM, 2016., doi: 10.1145/2903150.2903176 ISBN: 978-1-4503-4128-8</p>	D	1		A*+A+B>40
		<p>Jain, Anubhav, and Amit Kalele. "Accelerating The Optimal Trade-Off Circular Harmonic Function Filter Design on Multicore Systems." <i>Proceedings of the 7th ACM/SPEC on International Conference on Performance Engineering</i>. ACM, 2016. doi: 10.1145/2851553.2851579, ISBN: 978-1-4503-4080-9</p>	D	1		480
		<p>Laurent, Guillaume, et al. "Denoising applied to spectroscopies–Part II: Decreasing computation time." <i>Applied Spectroscopy Reviews</i> (2019): 1-24. DOI: https://doi.org/10.1080/05704928.2018.1559851</p>	A	8		
		<p>Tan Chao ; Wei Zhihui ; Wu ZeBin ; Chen Yufeng ; Gu Jingping. „Parallel optimization of K-SVD algorithm for image denoising based on Spark”, 2016 IEEE 13th International Conference on Signal Processing (ICSP), 10.1109/ICSP.2016.7877945</p>	D	1		

2	P Irofti, B Dumitrescu, 2016, "Regularized algorithms for dictionary learning", 2016 International Conference on Communications (COMM), 439-442	De, P., Chatterjee, A., & Rakshit, A. (2020). Regularized K-SVD-based dictionary learning approaches for PIR sensor-based detection of human movement direction. <i>IEEE Sensors Journal</i> , 21(5), 6459-6467.	A	8	
		Ilie-Ablachim, D. C., & Dumitrescu, B. (2021, May). Classification with Incoherent Kernel Dictionary Learning. In 2021 23rd International Conference on Control Systems and Computer Science (CSCS) (pp. 106-111). IEEE.	D	1	
3	B. Dumitrescu and P. Irofti, "Regularized K-SVD," <i>IEEE Signal Processing Letters</i> , vol. 24, no. 3, pp. 309-313, March 2017	Luo, A., Wu, L., Chen, L., Yu, S., & Ni, J. (2021, September). Single Channel Signals Separation of Space-based ADS-B Based on Compressed Sensing. In 2021 4th International Conference on Information Communication and Signal Processing (ICICSP) (pp. 116-123). IEEE	B	4	
		Wen, S., Zheng, Y., & Lu, F. (2021). A sparse representation based joint demosaicing method for single-chip polarized color sensor. <i>IEEE Transactions on Image Processing</i> , 30, 4171-4182.	A*	12	locul 5 din 69 la domeniul ENGINEERING, ELECTRICAL & ELECTRONIC - SCIE
		Khoshrou, A., & Pauwels, E. J. (2021). Regularisation for PCA-and SVD-type matrix factorisations. <i>arXiv preprint arXiv:2106.12955</i> .	D	1	
		Alessandrini, M., Biagetti, G., Crippa, P., Falaschetti, L., Manoni, L., & Turchetti, C. (2020). Singular value decomposition in embedded systems based on arm cortex-m architecture. <i>Electronics</i> , 10(1), 34.	C	2	
		Abolghasemi, V., Chen, M., Alameer, A., Ferdowsi, S., Chambers, J., & Nazarpour, K. Incoherent dictionary pair learning: application to a novel open-source. <i>IEEE Signal Processing Letters</i> .	A	8	

De, Pubali, Amitava Chatterjee, and Anjan Rakshit. "Regularized K-SVD based Dictionary Learning Approaches for PIR Sensor based Detection of Human Movement Direction." <i>IEEE Sensors Journal</i> (2020).	A	8
Fu, J., Yuan, H., Zhao, R. et al. <i>EURASIP J. Adv. Signal Process.</i> (2019) 2019: 47. https://doi.org/10.1186/s13634-019-0650-4	C	2
Fu, Jun, et al. "Adaptive Multilayered Dictionary Learning for Compressive-Sensing-Based Image Reconstruction." <i>IEEE Access</i> 7 (2019): 105922-105936. DOI: 10.1109/ACCESS.2019.2932098	A	8
Gao, Yulong, et al. "Spectrum Sensing in the Extremely Low SNR Regime by Exploiting Dictionary Learning." 2019 IEEE 30th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC). IEEE, 2019. DOI: 10.1109/PIMRC.2019.8904391	D	1
Huang, Jin-Wang, et al. "Chaotic signal denoising algorithm based on sparse decomposition." <i>Chinese Physics B</i> (2020).	C	2
J Liu, N Sun, X Li, G Han, H Yang. „Rare bird sparse recognition via part-based gist feature fusion and regularized intraclass dictionary learning,, <i>CMC-Computers Materials & Continua</i> , vol.55, no.3, pp.435-446, 2018, CMC. doi:10.3970/cmc.2018.02177	A	8
Jiang, Jian-guo, et al. "CS-Dict: Accurate Indoor Localization with CSI Selective Amplitude and Phase Based Regularized Dictionary Learning." <i>International Conference on Algorithms and Architectures for Parallel Processing</i> . Springer, Cham, 2020.	B	4
Liu, Ji-xin, et al. "Generalized compressed sensing with QR-based vision matrix learning for face recognition under natural scenes." <i>Signal Processing: Image Communication</i> (2019), https://doi.org/10.1016/j.image.2019.05.009	B	4
Serra, Juan G., et al. "Greedy Bayesian double sparsity dictionary learning." 2017 IEEE International Conference on Image Processing (ICIP). IEEE, 2017.	B	4

	V Abolghasemi, M Chen, A Alameer.. "Incoherent dictionary pair learning: Application to a novel open-source database of chinese numbers." <i>IEEE Signal Processing Letters</i> , 25.4 (2018): 472-476. DOI: 10.1109/LSP.2018.2798406, 1070-9908	A	8
	W Ye, S Li, X Zhao, A Abubakar.,, "AK times singular value decomposition based image denoising algorithm for DoFP polarization image sensors with Gaussian noise" <i>IEEE Sensors Journal</i> , Volume: 18 , Issue: 15 , Aug.1, 1 2018	A	8
	Wen, Sijia, et al. "Joint Chromatic and Polarimetric Demosaicing via Sparse Coding." <i>arXiv preprint arXiv:1912.07308</i> (2019).	D	1
	Zhao, Rongqiang, and Qiang Wang. "Learning Separable Dictionaries for Sparse Tensor Representation: An Online Approach." <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> 66.3 (2018): 502-506, DOI: 10.1109/TCSII.2018.2862900	B	4
	Zhao, Wenjing, et al. "Image Denoising Algorithm Combined with SGK Dictionary Learning and Principal Component Analysis Noise Estimation." <i>Mathematical Problems in Engineering</i> 2018 (2018). https://doi.org/10.1155/2018/1259703	B	4
	刘佶鑫, and 魏嫚. "可见光-近红外 HSV 融合的场景类字典稀疏识别." <i>计算机应用</i> (2018): 0-0	D	1
	张梦磊, et al. "同伦方法在图像稀疏去噪中的应用." <i>信号处理</i> 34.1 (2018): 89-97	D	1
4	B Dumitrescu, P Irofti, „Dictionary Learning Algorithms and Applications”, Springer, 2018		
	Jana, D., & Nagarajaiah, S. (2023). Data-driven full-field vibration response estimation from limited measurements in real-time using dictionary learning and compressive sensing. <i>Engineering Structures</i> , 275, 115280.	A	8
	Tian, H., & Wang, Y. (2023). Data-driven and physics-informed Bayesian learning of spatiotemporally varying consolidation settlement from sparse site investigation and settlement monitoring data. <i>Computers and Geotechnics</i> , 157, 105328.	A	8

Shen, M., Ma, J., Wang, S., Vyas, Y., Dixit, K., Ballesteros, M., & Benajiba, Y. (2023). Simple yet effective synthetic dataset construction for unsupervised opinion summarization.	D	1	
Armstrong, M. (2023). Optimization in MRI Experiment Design and Image Reconstruction (Doctoral dissertation, University of Windsor (Canada)).	D	1	
Bouche, D. (2023). Function-valued regression with kernels: Improving speed, flexibility and robustness (Doctoral dissertation, Institut Polytechnique de Paris).	D	1	
Jana, D., & Nagarajaiah, S. (2023). Physics-Guided Real-Time Full-Field Vibration Response Estimation from Sparse Measurements Using Compressive Sensing. <i>Sensors</i> , 23(1), 384.	B	4	
Chen, X., Li, Y., Ding, S., Tan, B., & Jiang, Y. (2022, December). A Novel Nonlinear Dictionary Learning Algorithm Based on Nonlinear-KSVD and Nonlinear-MOD. In <i>Artificial Intelligence: Second CAAI International Conference, CICA I 2022, Beijing, China, August 27–28, 2022, Revised Selected Papers, Part III</i> (pp. 167-179). Cham: Springer Nature Switzerland.	B	4	Canadian Artificial Intelligence Conference (CAAI) rang B
Hoppe, F., Krahmer, F., Verdun, C. M., Menzel, M. I., & Rauhut, H. (2022). Uncertainty quantification for sparse Fourier recovery. <i>arXiv preprint arXiv:2212.14864</i> .	D	1	
Mehrpooya, A., Karbasi, S. M., Nazari, M., Abbasi, Z., & Nayebi, M. M. (2022). 3D inverse synthetic aperture radar image quality improvement using sparse signal representation. <i>IET Radar, Sonar & Navigation</i> .	D	1	IET Radar, Sonar & Navigation e revista alba
Koopmann, G. B. (2022). Unobserved variables and applications of stochastic processes in life sciences (Doctoral dissertation, Technische Universität München).	D	1	
Zheng, X., Dumitrescu, B., Liu, J., & Giurcăneanu, C. D. (2022). Multivariate Time Series Imputation: An Approach Based on Dictionary Learning. <i>Entropy</i> , 24(8), 1057.	D	1	

Seetharamaswamy, S. K., & Veeranna, S. K. (2022). Super resolution image reconstruction via dual dictionary learning in sparse environment. <i>International Journal of Electrical & Computer Engineering</i> (2088-8708), 12(5)	D	1
Ilie-Ablachim, D. C., & Dumitrescu, B. (2022, August). Reduced Kernel Dictionary Learning. In <i>2022 30th European Signal Processing Conference (EUSIPCO)</i> (pp. 2006-2010). IEEE	B	4
Zhou, F., Zhao, L., Li, L., Hu, Y., Jiang, X., Yu, J., & Liang, G. (2022). GNSS signal acquisition algorithm based on two-stage compression of code-frequency domain. <i>Applied Sciences</i> , 12(12), 6255	D	1
Zhou, F., Zhao, L., Jiang, X., Li, L., Yu, J., & Liang, G. (2022). GNSS Signal Compression Acquisition Algorithm Based on Sensing Matrix Optimization. <i>Applied Sciences</i> , 12(12), 5866.	D	1
Mehrpooya, A., Nazari, M., Abbasi, Z., Karbasi, S. M., Nayebi, M. M., & Bastani, M. H. (2022). Fast multidimensional dictionary learning algorithms and their application in 3D inverse synthetic aperture radar image restoration and noise reduction. <i>IET Radar, Sonar & Navigation</i> , 16(9), 1484-1502.	D	1
Ilie-Ablachim, D. C., & Dumitrescu, B. (2022, May). Anomaly detection with selective dictionary learning. In <i>2022 8th International Conference on Control, Decision and Information Technologies (CoDIT)</i> (Vol. 1, pp. 255-260). IEEE.	C	2
Beheshti, M., Shafiei, V., & Narimani, H. (2022). Enhanced compressed sensing autofocus for high-resolution airborne synthetic aperture radar. <i>Digital Signal Processing</i> , 127, 103543	B	4
Brandoni, D. (2022). Tensor-Train decomposition for image classification problems.	D	1
Chowdhury, S. B. R., Zhao, C., & Chaturvedi, S. (2022). Unsupervised Extractive Opinion Summarization Using Sparse Coding. <i>arXiv preprint arXiv:2203.07921</i> .	D	1

Padfield, N., Ren, J., Murray, P., & Zhao, H. (2021). Sparse learning of band power features with genetic channel selection for effective classification of EEG signals. <i>Neurocomputing</i> , 463, 566-579.	B	4	
Moberg, D. R., Jasper, A. W., & Davis, M. J. (2021). Parsimonious Potential Energy Surface Expansions Using Dictionary Learning with Multipass Greedy Selection. <i>The Journal of Physical Chemistry Letters</i> , 12(37), 9169-9174	A	8	
Magbool, A., Bahloul, M. A., Ballal, T., Al-Naffouri, T. Y., & Laleg-Kirati, T. M. (2021). Aortic blood pressure estimation: a hybrid machine-learning and cross-relation approach. <i>Biomedical Signal Processing and Control</i> , 68, 102762.	B	4	
Vander Mijnsbrugge, D., Ongenae, F., & Van Hoecke, S. (2021). Parameter efficient neural networks with singular value decomposed kernels. <i>IEEE Transactions on Neural Networks and Learning Systems</i> .	A*	12	locul 8 din 69 la domeniul ENGINEERING, ELECTRICAL & ELECTRONIC - SCIE
Ghansah, B., Benuwa, B. B., & Monney, A. (2021). A Discriminative locality-sensitive dictionary learning with kernel weighted KNN classification for video semantic concepts analysis. <i>International Journal of Intelligent Information Technologies (IJIT)</i> , 17(1), 68-91	D	1	
Pikoulis, E. V., Mavrokefalidis, C., & Lalos, A. S. (2021, October). A data-aware dictionary-learning based technique for the acceleration of deep convolutional networks. In <i>2021 IEEE 23rd International Workshop on Multimedia Signal Processing (MMSP)</i> (pp. 1-5). IEEE.	B	4	
Bouche, D., Clausel, M., Roueff, F., & d'Alché-Buc, F. (2021, March). Nonlinear functional output regression: a dictionary approach. In <i>International Conference on Artificial Intelligence and Statistics</i> (pp. 235-243). PMLR.	A	8	

Geng, J., Yu, Z., & Li, C. (2021). Synthetic aperture radar increment imaging based on compressed sensing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 19, 1-5	A	8	
Brandoni, D., Porcelli, M., & Simoncini, V. (2021). A spectral PALM algorithm for matrix and tensor-train based Dictionary Learning. arXiv preprint arXiv:2107.11644.	D	1	
Shekkizhar, S., & Ortega, A. (2021). NNK-Means: Dictionary learning using non-negative kernel regression. arXiv preprint arXiv:2110.08212.	D	1	
Brzostowski, K., & Świątek, J. (2021). Dictionary adaptation and variational mode decomposition for gyroscope signal enhancement. <i>Applied Intelligence</i> , 51, 2312-2330.	B	4	
Magbool, A., Bahloul, M. A., Ballal, T., Al-Naffouri, T. Y., & Laleg-Kirati, T. M. (2021, November). Combining Machine Learning and Blind Estimation for Central Aortic Blood Pressure Reconstruction. In 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) (pp. 5512-5517). IEEE.	A	8	
Shahriari-Mehr, F., Parsa, J., Babaie-Zadeh, M., & Jutten, C. (2021, January). New Dictionary Learning Methods for Two-Dimensional Signals. In 2020 28th European Signal Processing Conference (EUSIPCO). IEEE	B	4	
Bircan, A. (2021). K-TDA sözlük öğrenmesi ile görüntü zenginleştirerek iris tanıma (Master's thesis, Konya Teknik Üniversitesi).	D	1	
Gaponenko, I., Musy, L., Domingo, N., Stucki, N., Verdaguer, A., Bassiri-Gharb, N., & Paruch, P. (2021). Local and correlated studies of humidity-mediated ferroelectric thin film surface charge dynamics. <i>npj Computational Materials</i> , 7(1), 163.	A*	12	locul16 din 86 la MATERIALS SCIENCE, MULTIDISCIPLINARY - SCIE
Richard, G. (2021). Transfer Learning methods for temporal data (Doctoral dissertation, Université Paris-Saclay).	D	1	

Li, K., Liu, Z., She, B., Liang, J., & Hu, G. (2021). Prestack seismic facies analysis via waveform sparse representations. <i>Geophysics</i> , 86(1), IM35-IM50.	B	4
Ilie-Ablachim, D. C., & Dumitrescu, B. (2021, May). Classification with Incoherent Kernel Dictionary Learning. In 2021 23rd International Conference on Control Systems and Computer Science (CSCS) (pp. 106-111). IEEE.	D	1
Cleju, N. (2021, July). Unrolled Null Space Tuning dictionary learning for denoising. In 2021 International Symposium on Signals, Circuits and Systems (ISSCS) (pp. 1-4). IEEE.	D	1
Zhu, T., Xu, J., Cai, L., He, W., Xiang, Y., & Fu, Y. (2020, June). Image compressed sensing recovery via adaptive dictionary learning. In Twelfth International Conference on Digital Image Processing (ICDIP 2020) (Vol. 11519, pp. 441-448). SPIE.	D	1
Song, D. (2020, August). Detecting Neuronal Assemblies in Spontaneous Activity with Dictionary Learning. In 2020 International Conference on Computing and Data Science (CDS) (pp. 400-404). IEEE.	D	1
GUGLIELMETTI, A. (2020). Adaptive-size online dictionary learning for nonstationary environments.	D	1
Magbool, A. (2020). Blind Estimation of Central Blood Pressure Waveforms from Peripheral Pressure Signals (Doctoral dissertation).	D	1
Atanackovic, L. (2020). Machine learning inspired ship-radiated noise modelling and cancellation for underwater acoustic communication systems (Doctoral dissertation, University of British Columbia).	D	1
Ameri, R., Alameer, A., Ferdowsi, S., Nazarpour, K., & Abolghasemi, V. (2020). Classification of Chinese Handwritten Numbers with Labeled Projective Dictionary Pair Learning. arXiv preprint arXiv:2003.11700.	D	1

Cleju, N., & Ciocoiu, I. B. (2020, November). Preconditioned k-svd for ecg anomaly detection. In 2020 International Symposium on Electronics and Telecommunications (ISETC) (pp. 1-4). IEEE.	D	1
Kumar, C., & Rajawat, K. (2020). Network dissensus via distributed ADMM. IEEE Transactions on Signal Processing, 68, 2287-2301.	A	8
Han, Kai, et al. "Model Rubik's Cube: Twisting Resolution, Depth and Width for TinyNets." Advances in Neural Information Processing Systems 33 (2020).	A*	12
De, Pubali, Amitava Chatterjee, and Anjan Rakshit. "Regularized K-SVD based Dictionary Learning Approaches for PIR Sensor based Detection of Human Movement Direction." IEEE Sensors Journal (2020).	A	8
de Andrade, Felipe Jordao P., Marcelo Gattass, and Rodrigo C. Fernandes. "LaWie—sparse-spike deconvolution with LASSO and Wiener filter." SEG Technical Program Expanded Abstracts 2020. Society of Exploration Geophysicists, 2020. 245-249.	D	1
Brzostowski, Krzysztof, and Jerzy Świątek. "Dictionary adaptation and variational mode decomposition for gyroscope signal enhancement." Applied Intelligence (2020): 1-19.	B	4
Ahishakiye, Emmanuel, et al. "Adaptive-size dictionary learning using information theoretic criteria for image reconstruction from undersampled k-space data in low field magnetic resonance imaging." BMC Medical Imaging 20.1 (2020): 1-12.	B	4
Rusu, Cristian. "On learning with shift-invariant structures." <i>Digital Signal Processing</i> (2020): 102654.	B	4
Sadeghi, Mostafa, and Massoud Babaie-Zadeh. "Dictionary Learning with Low Mutual Coherence Constraint." Neurocomputing (2020)	A	8
Shahriari-Mehr, Firooz, et al. "New Dictionary Learning Methods for Two-Dimensional Signals.", Eusipco, 2020	B	4

Tan, Benying, et al. "A novel dictionary learning method for sparse representation with nonconvex regularizations." <i>Neurocomputing</i> 417 (2020): 128-141.	A	8
Zheng, Xiaomeng, et al. "On the Use of Dictionary Learning in Time Series Imputation.", <i>Eusipco</i> , 2020	B	4
Zhu, Tao, et al. "Image compressed sensing recovery via adaptive dictionary learning." <i>Twelfth International Conference on Digital Image Processing (ICDIP 2020)</i> . Vol. 11519. International Society for Optics and Photonics, 2020	D	1
Bach, Francis. "Max-Plus Matching Pursuit for Deterministic Markov Decision Processes." <i>arXiv preprint arXiv:1906.08524</i> (2019).	D	1
Benjlali, Wissam. <i>Exploring analog-to-information CMOS image sensor design taking advantage on recent advances of compressive sensing for low-power image classification</i> . Diss. Université Grenoble Alpes, 2019.	D	1
Benuwa, Ben-Bright, et al. "Video semantic analysis based kernel locality-sensitive discriminative sparse representation." <i>Expert Systems with Applications</i> 119 (2019): 429-440, https://doi.org/10.1016/j.eswa.2018.11.016	A*	12
Dantas, Cassio. <i>Accelerating sparse inverse problems using structured approximations</i> . Diss. Inria Rennes-Bretagne Atlantique; Université Rennes 1, 2019.	D	1
Dumitrescu, Bogdan, and Ciprian Doru Giurcăneanu. "Adaptive-Size Dictionary Learning Using Information Theoretic Criteria." <i>Algorithms</i> 12.9 (2019): 178. https://doi.org/10.3390/a12090178	C	2
Giovanneschi, Fabio, et al. "Dictionary Learning for Adaptive GPR Landmine Classification." <i>IEEE Transactions on Geoscience and Remote Sensing</i> (2019). DOI: 10.1109/TGRS.2019.2931134	A	8

	Huang, Xinquan, Yuzhu Liu, and Fu Wang. "A robust full waveform inversion using dictionary learning." SEG Technical Program Expanded Abstracts 2019. Society of Exploration Geophysicists, 2019. 1506-1510. https://doi.org/10.1190/segam2019-3215989.1	D	1
	Nazzal, Mahmoud, et al. "Dictionary Learning-Based Beamspace Channel Estimation in Millimeter-Wave Massive MIMO Systems with a Lens Antenna Array." 2019 15th International Wireless Communications & Mobile Computing Conference (IWCMC). IEEE, 2019. DOI: 10.1109/IWCMC.2019.8766499	B	4
	Zhu, Tao. "Sparse dictionary learning by block proximal gradient with global convergence." Neurocomputing 367 (2019): 226-235. https://doi.org/10.1016/j.neucom.2019.08.028	A	8
	Fujii, Kaito, and Tasuku Soma. "Fast greedy algorithms for dictionary selection with generalized sparsity constraints." Advances in Neural Information Processing Systems. 2018	A*	12
	Rusu, Cristian. "Learning Multiplication-free Linear Transformations." arXiv preprint arXiv:1812.03412 (2018).	D	1
5	P. Irofti and B. Dumitrescu, "Overcomplete Dictionary Learning with Jacobi Atom Updates," in 39th International Conference on Telecommunications and Signal Processing, 2016, pp. 421-424.		
	Geppert, J. A. (2021). Adaptive Sparsification Mechanisms in Signal Recovery (Doctoral dissertation, Georg-August-Universität Göttingen).	D	1
	De, Pubali, Amitava Chatterjee, and Anjan Rakshit. "Regularized K-SVD based Dictionary Learning Approaches for PIR Sensor based Detection of Human Movement Direction." IEEE Sensors Journal (2020).	A	8

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	Moustafa, Marwa, et al. "Super-resolution: sparse dictionary design method using quantitative comparison." 2015 IEEE Seventh International Conference on Intelligent Computing and Information Systems (ICICIS). IEEE, 2015, DOI: 10.1109/IntelCIS.2015.7397249	D	1
P Irofti , F Stoican. „Dictionary learning strategies for sensor placement and leakage isolation in water networks”, IFAC-PapersOnLine 50 (1), 6 1553-1558	Speziali, S., Bianchi, F., Marini, A., Menculini, L., Proietti, M., Termite, L. F., ... & Delogu, A. (2021, October). Solving sensor placement problems in real water distribution networks using adiabatic quantum computation. In 2021 IEEE International Conference on Quantum Computing and Engineering (QCE) (pp. 463-464). IEEE.	D	1
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	Rayaroth, Rejeesh, and G. Sivaradje. "Random bagging classifier and shuffled frog leaping based optimal sensor placement for leakage detection in WDS." <i>Water Resources Management</i> 33.9 (2019): 3111-3125.	A	8
	Moni, Nayna Ann, et al. "Water Leak Detection from Irrigation Pipelines in Botswana using Vibration Interpretation Technique." 2019 IEEE AFRICON. IEEE, 2019	D	1

7	<p>P. Irofti, "Sparse Denoising with Learned Composite Structured Dictionaries," in 19th International Conference on System Theory, Control and Computing, 2015, pp. 331-336.</p>	<p>Ji, Jian, et al. "Generalised non-locally centralised image de-noising using sparse dictionary." <i>IET Image Processing</i> 12.7 (2018): 1072-1078. DOI: 10.1049/iet-ipr.2017.0783</p>	B	4
8	<p>P. Irofti and B. Dumitrescu, "Pairwise Approximate K-SVD," in Acoustics Speech and Signal Processing (ICASSP), 2019 IEEE International Conference on, 2019, pp. 1-5.</p>	<p>Khmag, A. (2022). Additive Gaussian noise removal based on generative adversarial network model and semi-soft thresholding approach. <i>Multimedia Tools and Applications</i>, 1-21.</p>	C	2
		<p>Osta, M., Ibrahim, A., & Valle, M. (2022). Approximate Computing Circuits for Embedded Tactile Data Processing. <i>Electronics</i>, 11(2), 190.</p>	C	2
		<p>Băltoiu, A., & Dumitrescu, B. (2021). Sparse Bayesian learning algorithm for separable dictionaries. <i>Digital Signal Processing</i>, 111, 102990.</p>	B	4
		<p>Baltoi, Andra, and Bogdan Dumitrescu. "Size Adaptation of Separable Dictionary Learning with Information-Theoretic Criteria." <i>2019 22nd International Conference on Control Systems and Computer Science (CSCS)</i> . IEEE, 2019. DOI: 10.1109/CSCS.2019.00009</p>	D	1
9	<p>P. Irofti, "Efficient Dictionary Learning Implementation on the GPU Using OpenCL," U.P.B. Scientific Bulletin, Series C, vol. 78, no. 3, pp. 39-50, 2016.</p>	<p>Bai, Jing, et al. "Medical image denoising based on sparse dictionary learning and cluster ensemble." <i>Soft Computing</i> 22.5 (2018): 1467-1473.</p>	B	4

10	B Dumitrescu, P Irofti , 2016, "Low dimensional subspace finding via size-reducing dictionary learning", 2016 IEEE 26th International Workshop on Machine Learning for Signal	Wu, J. S., Liu, J. X., Wu, J. Y., & Huang, W. (2023). Dictionary learning for unsupervised feature selection via dual sparse regression. <i>Applied Intelligence</i> , 1-17.	B	4
11	P Irofti , „OpenBSD’s New Suspend and Resume Framework”, 10th European BSD Conference, 1-6	Kumar, Amit, and Rakesh Kumar. "Preferred device early availability for faster user response." 2017 7th International Conference on Cloud Computing, Data Science & Engineering-Confluence. IEEE, 2017.	D	1
12	F Stoican, P Irofti , „Aiding Dictionary Learning Through Multi-Parametric Sparse Representation”, <i>Algorithms</i> 12.7 (2019): 131.	Pătrașcu, A. (2021). New nonasymptotic convergence rates of stochastic proximal point algorithm for stochastic convex optimization. <i>Optimization</i> , 70(9), 1891-1919.	B	4
		Pătrașcu, Andrei. "New nonasymptotic convergence rates of stochastic proximal point algorithm for stochastic convex optimization" <i>Optimization</i> (2020): 1-29. DOI: 10.1080/02331934.2020.1761364	B	4
		Patrascu, A. (2019). New nonasymptotic convergence rates of stochastic proximal point algorithm for convex optimization problems. arXiv preprint arXiv:1901.08663.	D	1
13	A Patrascu, P Irofti , "Stochastic proximal splitting algorithm for composite minimization", <i>Optimization Letters</i> , 2020, 1-16	Tian, Y., Zhang, Y., & Zhang, H. (2023). Recent Advances in Stochastic Gradient Descent in Deep Learning. <i>Mathematics</i> , 11(3), 682.	D	1

Eisenmann, M., Stillfjord, T., & Williamson, M. (2022). Sub-linear convergence of a stochastic proximal iteration method in Hilbert space. <i>Computational Optimization and Applications</i> , 83(1), 181-210.	A	8	
Eisenmann, M., & Stillfjord, T. (2022). Sublinear Convergence of a Tamed Stochastic Gradient Descent Method in Hilbert Space. <i>SIAM Journal on Optimization</i> , 32(3), 1642-1667.	A*	12	locul 8 din 66 la domeniul Mathematics
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Kratsios, A., & Zamanlooy, B. (2022). Learning sub-patterns in piecewise continuous functions. <i>Neurocomputing</i> , 480, 192-211.	B	4	
Shi Shanshan, & Yu Zhensheng. (2022). Sequential effective set method for polyhedron-constrained non-smooth composite functions. <i>Journal of University of Shanghai for Science and Technology</i> , 44(4), 373-380.	D	1	
Toulis, P., Horel, T., & Airoldi, E. M. (2021). The proximal robbins–monro method. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 83(1), 188-212.	A*	12	locul 3 din 31 la STATISTICS & PROBABILITY - SCIE
Mishchenko, K. (2021). On Seven Fundamental Optimization Challenges in Machine Learning. arXiv preprint arXiv:2110.12281.	D	1	
Williamson, Måns, Monika Eisenmann, and Tony Stillfjord. "Sub-linear convergence of a stochastic proximal iteration method in Hilbert space." arXiv preprint arXiv:2010.12348 (2020).	D	1	
Toulis, Panos, Thibaut Horel, and Edoardo M. Airoldi. "The Proximal Robbins-Monro Method." arXiv preprint arXiv:1510.00967 (2015).	D	1	

<p>P Irofti, A Băltoiu, "Malware identification with dictionary learning", 2019 27th European Signal Processing Conference (EUSIPCO), 1-5</p>	<p>Apruzzese, G., Laskov, P., & Tastemirova, A. (2022, June). SoK: The impact of unlabelled data in cyberthreat detection. In 2022 IEEE 7th European Symposium on Security and Privacy (EuroS&P) (pp. 20-42). IEEE.</p>	<p>D</p>	<p>1</p>	
	<p>Tran, Khanh-Hung, et al. "Semisupervised Dictionary Learning with Graph Regularized and Active Points." SIAM Journal on Imaging Sciences 13.2 (2020): 724-745.</p>	<p>A*</p>	<p>12</p>	
<p>A Baltoiu, A Patrascu, P Irofti, 2020, "Graph anomaly detection using dictionary learning", IFAC-PapersOnLine 53 (2), 3551-3558</p>	<p>Jensen, R. I. T., & Iosifidis, A. (2023). Fighting Money Laundering With Statistics and Machine Learning. IEEE Access, 11, 8889-8903.</p>	<p>B</p>	<p>4</p>	
	<p>Gou, J., Yuan, X., Du, L., Xia, S., & Yi, Z. (2022). Hierarchical graph augmented deep collaborative dictionary learning for classification. IEEE Transactions on Intelligent Transportation Systems, 23(12), 25308-25322.</p>	<p>A*</p>	<p>12</p>	<p>locul 3 din 34 la domeniul ENGINEERING, CIVIL - SCIE</p>
	<p>Alexopoulos, A., Dellaportas, P., Gyoshev, S., Kotsogiannis, C., Olhede, S. C., & Pavkov, T. (2021). Detecting anomalies in heterogeneous population-scale VAT networks. arXiv preprint arXiv:2106.14005.</p>	<p>D</p>	<p>1</p>	
	<p>Bakhshinejad, N., Soltani, R., Nguyen, U. T., & Messina, P. A Survey of Machine Learning Based Anti-Money Laundering Solutions.</p>	<p>D</p>	<p>1</p>	
<p>P Irofti, A Pătrașcu, A Băltoiu, 2020, "Fraud Detection in Networks", Enabling AI Applications in Data Science, 517-536</p>	<p>Dumitrescu, B., Băltoiu, A., & Budulan, Ș. (2022). Anomaly Detection in Graphs of Bank Transactions for Anti Money Laundering Applications. IEEE Access, 10, 47699-47714.</p>	<p>B</p>	<p>4</p>	

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	Chaabene, N. E. H. B. (2022). Détection d'utilisateurs violents et de menaces dans les réseaux sociaux (Doctoral dissertation, Institut Polytechnique de Paris; École Nationale des Sciences de l'Informatique (La Manouba, Tunisie)).	D	1	
	Kute, D. V., Pradhan, B., Shukla, N., & Alamri, A. (2021). Deep learning and explainable artificial intelligence techniques applied for detecting money laundering—a critical review. <i>IEEE Access</i> , 9, 82300-82317.	B	4	
	Zhu, X., Ao, X., Qin, Z., Chang, Y., Liu, Y., He, Q., & Li, J. (2021). Intelligent financial fraud detection practices in post-pandemic era. <i>The Innovation</i> , 2(4), 100176.	D	1	
	SHUKLA, N., & ALAMRI, A. Deep Learning and Explainable Artificial Intelligence Techniques Applied for Detecting Money Laundering—A Critical Review.	D	1	
P Irofti , F Stoican, V Puig, 2020, "Fault handling in large water networks with online dictionary learning", <i>Journal of Process Control</i> 17 94, 46-57	Li, J., Zheng, W., & Lu, C. (2022). An accurate leakage localization method for water supply network based on deep learning network. <i>Water Resources Management</i> , 36(7), 2309-2325.	B	4	
	Liu, Y., Zeng, J., Xie, L., Jiang, B., & Zhang, D. (2022). Row-Column Overcomplete Structured Dictionary Learning for Enhanced Fault Detection and Isolation. <i>IEEE Transactions on Industrial Informatics</i> .	A*	12	locul 1 din 12 la domeniul ENGINEERING, INDUSTRIAL - SCIE
	Koyama, A., Sugita, Y., Isobe, A., Kamada, Y., Degawa, M., Mine, T., & Kawamoto, T. (2022, October). Leakage Sensor Placement Optimization Using Acoustic Attenuation Features in Water Mains. In <i>2022 IEEE Sensors</i> (pp. 01-04). IEEE.	B	4	

	Velimirović, L. Z., Janković, R., Velimirović, J. D., & Janjić, A. (2021). Wastewater plant reliability prediction using the machine learning classification algorithms. <i>Symmetry</i> , 13(8), 1518.	C	2
	Speziali, S., Bianchi, F., Marini, A., Menculini, L., Proietti, M., Termite, L. F., ... & Delogu, A. (2021, October). Solving sensor placement problems in real water distribution networks using adiabatic quantum computation. In 2021 IEEE International Conference on Quantum Computing and Engineering (QCE) (pp. 463-464). IEEE.	D	1
P Irofti , A Băltoiu, 2020, "Unsupervised dictionary learning for anomaly detection", arXiv preprint arXiv:2003.00293	Julian, A., & Ramyadevi, R. (2022). Construction of Deep Representations. Prediction and Analysis for Knowledge Representation and Machine Learning. Chapman and Hall/CRC, 81-109.	D	1
P Irofti , 2016, Efficient dictionary learning implementation on the GPU using OpenCL, UPB Sci Bull Ser C Electr Eng 78 (3), 39-50	Bai, J., Song, S., Fan, T., & Jiao, L. (2018). Medical image denoising based on sparse dictionary learning and cluster ensemble. <i>Soft Computing</i> , 22, 1467-1473.	C	2
P Irofti , L Romero-Ben, F Stoican, V Puig, 2022, Data-driven leak localization in water distribution networks via dictionary learning and graph-based interpolation, 2022 IEEE Conference on Control Technology and Applications (CCTA), 1265-1270	van Lagen, G., Abraham, E., & Esfahani, P. M. (2022). A Bayesian Approach for Active Fault Isolation With an Application to Leakage Localization in Water Distribution Networks. <i>IEEE Transactions on Control Systems Technology</i> .	A	8

<p>A Patrascu, P Irofti, 2021, Complexity of Inexact Proximal Point Algorithm for minimizing convex functions with Holderian Growth, arXiv preprint</p>			
<p>21 arXiv:2108.04482</p>	<p>Cano Lengua, M. A. (2023). Un algoritmo multiplicador proximal para clasificación binaria en máquinas de vectores soporte.</p>	D	1
<p>A Pătrașcu, C Păduraru, P Irofti, 2020, Stochastic SPG with Minibatches, Enabling AI Applications in</p>	<p>Tian, Y., Zhang, Y., & Zhang, H. (2023). Recent Advances in Stochastic Gradient Descent in Deep Learning. <i>Mathematics</i>, 11(3), 682.</p>	D	1
<p>22 Data Science, 3-25</p>			

PERSPECTIVA D

	punctaj pe volum		punctaj	Observații	Total
i) Cărți de autor/editate și capitole publicate în edituri de categoria (conform clasamentului SENSE):					153,5
cărți (A)	16/ max(1, n-1)				
cărți (B) sau capitole (A)	8 / max (1, n-1)	B. Dumitrescu and P. Irofti, <i>Dictionary Learning Algorithms and Applications</i> , Springer, 2018	8		
cărți (C) sau capitole (B)	4 / max (1, n-1)	A. Pătrașcu, C. Păduraru, and P. Irofti , "Stochastic Proximal Gradient Algorithm with Minibatches. Application to Large Scale Learning Models," in <i>Enabling AI applications in Data Science</i> , pp. 1--24. Springer, 2020.	2		
		P. Irofti , A. Băltoiu, and A. Pătrașcu, "Fraud Detection in Networks," in <i>Enabling AI applications in Data Science</i> , pp. 1--20. Springer, 2020.	2		
cărți (D, E și nelistate) sau capitole (C)	2 / max (1, n-1)				
capitole (D, E și nelistate)	1 / max (1, n-1)				
ii) Editor proceedings la conferințe de tip:-A* A B C D	(12 8 4 2 1) / max(1, n-1)				
ii). Publicarea unui curs universitar în format electronic	2 (pe curs)	Sisteme de operare https://cs.unibuc.ro/~pirofti/so.html	2		
		Utilizarea sistemelor de operare https://cs.unibuc.ro/~pirofti/uso.html	2		
		Prelucrarea semnalelor: https://cs.unibuc.ro/~pirofti/ps.html	2		
		Sisteme de operare: proiectare și securitate https://cs.unibuc.ro/~pirofti/sso.html	2		

				invitat 2-3 cursuri și laboratoare despre Dictionary Learning (titular Bogdan Alexe)
		Vedere artificială https://cs.unibuc.ro/~pirofti/va.html		
		Analiza Statică https://cs.unibuc.ro/~pirofti/stls.html	1	împreună cu Ioana Leuștean
		Procesare Paralelă (Master SIC)		
		Programare pe GPU cu OpenCL http://schur.pub.ro	1	împreună cu Bogdan Dumitrescu
iv). Director/editor al unei reviste de tip: - A* A B C D	36 24 12 6 3 (pe revistă)			
v). Director (coordonator/responsabil) membru al unui grant/proiect/contract/program de cercetare național/internațional a cărui valoare intrată în instituție este:	pe grant/proiect/contract/program			
≥ 500.000 Euro, ca director membru	10 5			
200.000 –499.999 Euro, ca director membru	8 4	Membru în "Innovation Hub for Advanced Cyber-Security Technologies", PCCDI project 2018-2020	4	
		Membru în "Sparse representations in signal processing", IDEI 2011 project, 2014-2016	4	
100.000 –199.999 Euro, ca director membru	6 3	Director al proiectului 287PED/2020 „ Graphomaly – software package for anomaly detection in graphs modeling financial transactions”, PN-III-P2-2.1-PED-2019-3248, 2020-2022	6	
		Membru în "Set-theoretic approaches for fault tolerant control of complex systems", TE 2015 project, 2015-2017	3	

50.000 –99.999 Euro, ca director membru	4 2	Director al proiectului 12PD/2020 „DDNET – Data Driven Fault Accommodation for Distribution Networks”, PN-III-P1-1.1-PD-2019-0825, 2020-2022	4	
		Membru TE27/2020 „Planificare de traiectorii robuste pentru sisteme neliniare cu incertitudini”, PN-III-P1-1.1-TE-2019-1614, 2020-2022	2	
		Membru 401PED/2020 SASHA, PN-III-P2-2.1-PED-2019-5392, 2020-2022	2	
<50.000 Euro, ca director membru	2 1	PRECISI: Premiera rezultatelor cercetarii - Articole, Competitia 2017	1	2 autori
		Membru în ”Implementation and development of algorithms for the dynamic motion planning of robotic systems”, proiect Cecuri de Inovare 2017, 2017	1	
		Membru 56PTE/2020 MASSA, PN-III-P2-2.1-PTE-2019-0817, 2020-2022	1	
		PRECISI: Premiera rezultatelor cercetarii - Articole, Competitia 2020	1	2 autori
vi). Membru în comitetul științific (de program) al unor conferințe, simpozioane, workshop-uri, de tip:-A* A B C D	6 4 2 1 0,5 (pe eveniment)	2017 Fifth International Conference on Image Information Processing (ICIIP -2017)	0,5	
		http://www.juit.ac.in/ICIIP_2017/tpc.php		
		2019 Fifth International Conference on Image Information Processing (ICIIP -2019)	0,5	
		http://www.juit.ac.in/iciip_2019/tpc.php		
		2020 2nd International Conference on Intelligent Medicine and Image Processing (IMIP 2020)	0,5	
		http://www.imip.org/com.html		

		2020 International Symposium on Intelligent Robotics and Systems (ISoIRS 2020)	0,5
		https://web.archive.org/web/20200304063654/http://www.isoirs.org/com.html	
		2021 International Symposium on Intelligent Robotics and Systems (ISoIRS 2021)	0,5
		http://www.isoirs.org/com.html	
		The Fifth International Conference on Advances in Signal, Image and Video Processing (SIGNAL 2020)	0,5
		https://www.iaria.org/conferences2020/ComSIGNAL20.html	
		2021 IEEE Data Science and Learning Workshop (DSLW 2021)	2
		https://conferences.ece.ubc.ca/dslw2021/#/committee	
		2021 IEEE International Conference on Acoustics, Speech and Signal Processing	2
		https://2021.ieeeicassp.org/	
		2021 IEEE International Workshop on MACHINE LEARNING FOR SIGNAL PROCESSING	0,5
vii). Organizare evenimente științifice/școli de vară, în calitate de director membru în comitetul de organizare	2 1 (pe eveniment)	Organizator „Seminar de securitate” https://sla.cs.unibuc.ro/index.php/events/category/seminar/seminar-securitate/	2
		Organizator conferință sisteme de operare OpenBSD 5–12 Noiembrie, 2019 la Facultatea de Matematică și Informatică https://www.openbsd.org/hackathons.html	2

viii). Keynote/invited speaker/professorla evenimente/universități:	pe		
	eveniment/conferință		
de tip A*/top 20	12		
de tip A/top 100	8		
de tip B/școli de vară internaționale/top 200	4	Dagstuhl Seminar Challenges in Analysing Executables: Scalability, Self-Modifying Code and Synergy (14241) Schloss Dagstuhl, Leibniz-Zentrum fur Informatik, Leibniz, Germany, June 9-13, 2014	4
		Dagstuhl Seminar Analysis of Executables: Benefits and Challenges (12051) Schloss Dagstuhl, Leibniz-Zentrum fur Informatik, Leibniz, Germany, January 29th - February 3rd, 2012	4
		Making OpenBSD Useful on the Octeon Network Gear European BSD Conference, Sofia, Bulgaria September 25-28, 2014	
		https://www.youtube.com/watch?v=4UBcm5_w4W0	4
		http://2014.eurobsdcon.org/talks-and-schedule/talks/#Paullrofti	
		Porting OpenBSD on the MIPS64-based Octeon Platforms BSDCan Conference, Ottawa, Ontario, Canada, May 14-17, 2014	4
		http://www.bsdcan.org/2014/schedule/events/480.en.html	
		OpenBSD's New Suspend and Resume Framework European BSD Conference, Maarssen, Utrecht, Netherlands, October 6-9, 2011	4
		http://2011.eurobsdcon.org/talks.html#irofti	
			invitat conferință de sisteme de operare: conferința a plătit toate cheltuielile: deplasarea, cazarea, masa; prezentare de 1h;

		On the Linux Compatibility Layer in OpenBSD 5.0 Slackathon Conference, Stockholm University, Stockholm, Sweden, August 6th, 2011	4	
		http://www.slackathon.se:2011/		
de tip C, școli de vară naționale, conferințe ale Academiei Române/ top 500	2			
de tip D/evenimente locale/> 500	1	Ports Hackathon, Epitech, Ecole d'Informatique, Nantes, France, April 23-29, 2018	1	
		Ports Hackathon, IN-Berlin, Berlin, Germany November 1-6, 2017	1	
		General Hackathon, Computer Laboratory, Cambridge, UK August 30th - September 5th, 2016	1	
		Ports Hackathon, Epitech, Ecole d'Informatique, Nantes, France, April 25-29, 2016	1	
		General Hackathon, SAIT Polytechnic, Calgary, Canada July 15-21, 2015	1	
		European General OpenBSD Hackathon, Ljubljana, Slovenia July 8-14, 2014	1	eveniment local Sisteme
		General Hackathon, University of Toronto, Toronto, Canada May 29th - June 5th, 2013	1	de Operare ce se
		Network Hackathon, University of Otago, Dunedin, New Zealand January 13-19, 2013	1	concentrează pe un subiect
		Hardware Hackathon, Coimbra University, Portugal November 14-20, 2012	1	anume pre- stabilit;
		Network Hackathon, Starnberg, Germany September 17-21, 2012	1	acces pe bază de invitație;
		General OpenBSD Hackathon, Budapest, Hungary July 7-14, 2012	1	cazarea și transportul

Rthreads Hackathon, Henri Poincare Institute, Paris, France April 10-14, 2012	1	transportul plătite de organizatori; organizat în general de către universități; https://www.openbsd.org/hackathons.html
Ports Hackathon, Budapest, Hungary November 12-18, 2011	1	
European General OpenBSD Hackathon, Ljubljana, Slovenia September 16-23, 2011	1	
General OpenBSD Hackathon, University of Alberta, Edmonton, Canada July 2-9, 2011	1	
OpenBSD Kernel Hackathon, Hafnarfjordur, Iceland April 1-7, 2011	1	
Ports Hackathon, Budapest, Hungary, October 23-29, 2010	1	
Japan General Hackathon, Akiyamago, Sake Mura, Nagano, Japonia September 19-25, 2010	1	
General OpenBSD Hackathon, University of Alberta, Edmonton, Canada June 25th - 3rd July, 2010	1	
Hardware OpenBSD Hackathon, Coimbra University, Coimbra, Portugal November 21-27 2009	1	
Ports Hackathon, Budapest, Hungary October 9-16, 2009	1	
General OpenBSD Hackathon, University of Alberta, Edmonton, Canada, May 30th - June 7th, 2009	1	
Ports Hackathon, Budapest, Hungary October 24-31, 2008	1	

ix). Profesor/cercetător asociat/visiting la	pe vizită
top 20	12* nr luni
top 100	8* nr luni
top 200	4* nr luni

top 500	2* nr luni	Acoustics Research Institute of the Austrian Academy of Sciences, Vienna (2016), https://www.kfs.oeaw.ac.at/index.php?lang=en	2
		394 în Nature Index: https://www.natureindex.com/annual-tables/2019/institution/all/all	
top > 500 pentru vizite scurte cu predare intensivă se pot face echivalări	1* nr luni 1 lună=16 ore de predare, maximum 24 puncte		
x). Consolidarea de echipe de cercetare (numai în postura de lider), la nivel: internațional (acreditări) național (acreditări) în instituție (recunoscute oficial)	(4 2 1) * nr. ani	Echipa BRD Anti-Money Laundry. Include organizarea unui Reading-Group despre Anomaly Detection Ref: Alin Ștefănescu, Marius Popescu	1
		Echipa BRD Network Anomaly Detection. Ref: Alin Ștefănescu, Marius Popescu	1
(pentru echipe de minimum 5 persoane)	nu mai mult de 10% din punctajul total al perspectivei d		
xi). Membru în comisii de evaluare a tezelor de doctorat la o universitate din top: -20 100 200 500 >500	6 4 2 1 0,5 (pe teză)		
xii). Membru în comisiide îndrumare a doctoranzilor (dovedit prin decizia școlii doctorale)	1 (pe doctorand îndrumat care a obținut titlul de doctor)		

xiii). Brevete și invenții active (OSIM, ORDA etc.) pe brevet/invenție	$12 / \max(1, n-1)$			
xiv). Dezvoltarea de pachete și instrumente software, dezvoltarea de resurse și colecții de date de largă utilitate (probate prin număr de accesări, publicarea pe site-uri open source etc.)	$2 \max(1, n-1)$ pe produs; maximum 10% din punctajul total al perspectivei d	Implementarea algoritmului Regularized K-SVD; Programe de demonstrative și de testare;	https://github.com/pirofti/ksvd_reg	2
		Toolbox Dictionary Learning; Oferă programe ce implementează majoritatea algoritmilor de tip Dictionary Learning	https://github.com/pirofti/dl-box	2
		Bibliotecă, exerciții și programe ce însoțesc cartea "Dictionary Learning Algorithms and Applications" de la Springer.	https://github.com/dl-book	2
		Driver Broadcom BCM53xx 10/100/1000TX Ethernet PHY	https://man.openbsd.org/man4/brswphy.4	2
		Driver Octeon Time-of-day clock	https://man.openbsd.org/octeon/octrtc.4	2
				Driver open-

Driver AMD Geode CS5536 multi-function general purpose timer		source;
	2	
https://man.openbsd.org/glxclk.4 Driver ACPI video		Inițial dezvoltate pentru sistemul de operare OpenBSD;
	2	
https://man.openbsd.org/acpivideo.4 Driver Sony ACPI control		Preluat complet sau parțial de alte sisteme de operare: FreeBSD, NetBSD, Linux etc.
	2	
https://man.openbsd.org/acpisony.4 Driver ACPI video output (brightness, dual screen etc.)		
	2	
https://man.openbsd.org/acpivout.4 ACPI power resources (power management)		
	2	
https://man.openbsd.org/acpipwrres.4 Driver Octeon random number generator		
	2	
https://man.openbsd.org/octrng.4 Driver pentru statistic clock pentru arhitecturile Loongson/MIPS64		
	2	
Driver Octeon AMD flash memory		
	2	
https://man.openbsd.org/amdcf.4		

Îmbunătățiri fundamentale în kernel-ul sistemului de operare OpenBSD:

- Device Autoconfiguration Framework
- Generic Kernel Framework for suspend/resume (Architecture agnostic)
- ACPI Framework
- Real-mode Emulator Kernel Integration for the Video BIOS
- Suspend/resume support for the Loongson Platform
- Futex Implementation
- Expanding the Emulation Layer for Linux Binaries
- CPU scaling support for the Loongson CPU
- VDSO: modificare kernel și libc pentru timecounting în userland

Aproape 800 contribuții cf.
<http://www.oxide.org/cvs/pirofti.html>

Surse: <https://www.openbsd.org/>

2

OpenBSD este un sistem de operare open-source axat pe securitate folosit de toate firmele mari de IT (Google, Microsoft, Facebook, Netflix, HP, DuckDuckGo)

<https://en.wikipedia.org/wiki/OpenBSD>
<https://www.openbsd.foundation.org/contributors.html>

xv). Poziții de conducere în organizații profesionale:- internaționale | naționale

4 | 2 (pe organizație)

xvii). Premii și alte merite

Punctaj conform deciziei univ. sau inst. de cercetare / maximum 10% din punctajul total al perspectivei d

Premiul Grigore Moisil al Academiei Române din 2020 pentru cartea „Dictionary Learning: Algorithms and Applications” publicată în 2018

2

<https://academi-aromana.ro/premiileAR/liste/2018.pdf>

Premiul ANIS 2020 pentru cursul SOPS de la masterul SLA

2

https://anis.ro/povesti_succes/paul-irofti/

Câștigătorul bursei BRD Data Science Research Fellowships, 2019

2

sau la D v) dacă este publicat pe site-ul centrului de Data Science de la noi competiția în urma căreia am câștigat bursa... probabil nu va fi

Câștigătorul bursei BRD Data Science Research Fellowships, 2021

2

sau la D v) dacă este publicat pe site-ul centrului de Data Science de la noi competiția în urma căreia am câștigat bursa

Bursă domeniu Sisteme de Operare;
Temă "Futex Synchronization in OpenBSD";
BSDFund Scholarship, Linux Fund Foundation, 2011
POSDRU Fellowship KNOWLEDGE POSDRU
159/1.5/S/134398

1

Sau la D v); nu
există dovada
competiției pe
site

2

Valori minime	
Conferențiar / CSII	36
Profesor / CSI / Abilitare	60
praguri pentru Prof / CS1 / Abilitare	Minim un proiect, cu echipă de cel puțin 2 (doi) membri, obținut prin competiția nivel național sau internațional