

**Fișa de verificare a îndeplinirii criteriilor minimale corespunzătoare
domeniului Informatică – conform ordin 6.129/2016**

Candidat: Ovidiu Cosma

Instituția: Universitatea Tehnică Cluj-Napoca

Centralizator verificare perspective:

Perspectiva	Condiții minimale	Punctaj realizat	Îndeplinire
a) Etica cercetării	Se respectă normele de etică a cercetării	Am respectat normele de etică a cercetării	DA
b) Producția științifică			
Punctaj	$A^* + A + B + C \geq 56$	82.95	DA
Praguri	$A^* + A \geq 24$	56	DA
	$A^* + A + B \geq 40$	72	DA
c) Impactul rezultatelor			
Punctaj	$A^* + A + B + C + D \geq 120$	342	DA
Praguri	$A^* + A + B \geq 40$	274	DA
d) Performanța academică			
Punctaj	60	108	DA
Praguri	Minim un proiect cu echipă de cel puțin 2 membri obținut de candidat prin competiție la nivel național sau internațional	Horizon 2020 - Building Trust in Ecosystems and Ecosystem Components (BIECO), finanțat de Comisia Europeană, echipă 5 membri, 2020-2023	DA
PUNCTAJ TOTAL	236 puncte	532.95	DA

532,95 / 236 = 2.258

Data: 12.12.2022

Semnătura

a) Etica cercetării

Subsemnatul, Ovidiu Cosma, am respectat toate normele de etica a cercetării și prin urmare perspectiva a) o evaluez cu calificativul: **îndeplinit**.

b) Producția științifică

Jurnale și conferințe din categoria A* si A	Categoria	Punctaj
1. O. Cosma , P.C. Pop, C. Pop Sitar, A two-level based genetic algorithm for solving the soft-clustered vehicle routing problem, Carpathian Journal of Mathematics, Vol. 38, No. 1, pp. 117-128, 2022.	A poziția 3 din Q2	8
2. O. Cosma , P.C. Pop, D. Dănciulescu, A novel matheuristic approach for a two-stage transportation problem with fixed costs associated to the routes, Computers and Operations Research, Vol. 118, art. no. 104906, 2020.	A (AIS)	8
3. O. Cosma , P.C. Pop, C. Sabo, An Efficient Hybrid Genetic Approach for Solving the Two-Stage Supply Chain Network Design Problem with Fixed Costs, Mathematics, Vol. 8, art. no. 712, 2020.	A	8
4. O. Cosma , P.C. Pop, I. Zelina, A novel genetic algorithm for solving the clustered shortest-path tree problem, Carpathian Journal of Mathematics, Vol. 36, No. 3, pp. 401-414, 2020.	A	8
5. O. Cosma , P.C. Pop, D. Danciulescu, A parallel algorithm for solving a two-stage fixed-charge transportation problem, Informatica, Vol. 31 No. 4, pp. 681-706, 2020.	A	8
6. O. Cosma , D. Danciulescu, P.C. Pop, On the two-stage transportation problem with fixed charge for opening the distribution centers, IEEE Access, Vol. 7, No. 1, pp. 113684-113698, 2019.	A	8
7. O. Cosma , P.C. Pop, C. Pop Sitar, An efficient iterated local search heuristic algorithm for the two-stage fixed-charge transportation problem, Carpathian Journal of Mathematics, Vol. 35, No.2, pp. 153-164, 2019.	A	8
TOTAL jurnale și conferințe din categoria A* si A		56

Jurnale și conferințe din categoria B	Categoria	Punctaj
1. O. Cosma , P.C. Pop, C. Sabo, Solving a two-stage supply chain network design problem with fixed costs by a hybrid genetic algorithm, Logic Journal of the IGPL, Vol. 30, No. 4, pp. 622-634, 2022	B	4
2. O. Cosma , P.C. Pop, I. Zelina, An effective genetic algorithm for solving the clustered shortest-path tree problem, IEEE Access, Vol. 9, pp. 15570-15591, 2021.	B	4

3. O. Cosma , P.C. Pop, C. Sabo, A novel hybrid genetic algorithm for the two-stage transportation problem with fixed charges associated to the routes, in Proc. of International Conference on Current Trends in Theory and Practice of Informatics (SOFSEM), Lecture Notes in Computer Science, Vol. 12011, pp. 417-428, 2020.	B (CORE)	4
4. G. Ardelean, O. Cosma , L. Balog, A comparison of some fixed point iteration procedures by using the basins of attraction, Carpathian Journal of Mathematics, Vol. 32, No. 3, pp. 277-284, 2016	B	4
TOTAL jurnale și conferințe din categoria B		16

Jurnale și conferințe din categoria C	Categoria	Punctaj
1. O. Cosma , P.C. Pop, C. Sabo, L. Cosma, Forecasting the Number of Bugs and Vulnerabilities in Software Components using Neural Network Models, in Proc. of 15 th Computational Intelligence in Security for Information Systems Conference (CISIS), Lecture Notes in Networks and Systems, Vol. 532, pp. 159-168, 2022	C (CORE)	1
2. O. Cosma , P.C. Pop, C. Sabo, On the Two-Stage Supply Chain Network Design Problem with Risk-Pooling and Lead Times, Cybernetics and Systems, pp. 1-18, 2022.	C	2
3. O. Cosma , P.C. Pop, L. Cosma, An Effective Hybrid Genetic Algorithm for Solving the Generalized Traveling Salesman Problem, in Proc. of International Conference on Hybrid Artificial Intelligence Systems (HAIS), Lecture Notes in Computer Science, Vol. 12886, pp. 113-123, 2021.	C	2
4. O. Cosma , M. Măcelaru, P.C. Pop, C. Sabo, I. Zelina, A Comparative Study of the Most Important Methods for Forecasting the ICT Systems Vulnerabilities, in Proc. of Computational Intelligence in Security for Information Systems Conference (CISIS), Advances in Intelligent Systems and Computing, Vol. 1400, pp. 224-233, 2021	C	0.67
5. R. S. Peres, L. Adkinson, E. Cioroaița, E. Marchetti, E. Schiavone, S. Matheu, O. Cosma , R. Piliszek, and J. Barata, The BIECO Conceptual Framework Towards Security and Trust in ICT Ecosystems, In Proc. of 33rd IFIP Int. Conf. on Testing Software and Systems (ICTSS), London, United Kingdom, November 10-12, 2021, Testing Software and Systems, Lecture Notes in Computer Science, Vol. 13045, pp. 230-232, 2021.	C (CORE)	0.28
6. O. Cosma , P.C. Pop, C. Sabo, An efficient solution approach for solving the two-stage supply chain problem with fixed costs associated to the routes, in Proc. of 7th International Conference on Information Technology and Quantitative Management (ITQM), Procedia Computer Science (SCOPUS), Vol. 162, pp. 900-907, 2019.	C	2

7. O. Cosma , P.C. Pop, C. Sabo, An efficient hybrid genetic algorithm for solving a particular two-stage fixed-charge transportation problem, in Proc. of International Conference on Hybrid Artificial Intelligence Systems (HAIS), Hybrid Artificial Intelligent Systems, Lecture Notes in Computer Science, Vol. 11734, pp. 157-167, 2019.	C	2
8. O. Cosma , P.C. Pop, O. Matei, I. Zelina, A hybrid iterated local search for solving a particular two-stage fixed-charge transportation problem, in Proc. of International Conference on Hybrid Artificial Intelligence Systems (HAIS), Lecture Notes in Computer Science, Vol. 10870, pp. 684-693, 2018.	C	1
TOTAL jurnale și conferințe din categoria C		10.95

Jurnale și conferințe din categoria D	Categoria	Punctaj
1. O. Cosma , P.C. Pop, C. Sabo, Solving the two-stage supply chain network design problem with risk-pooling and lead times by an efficient genetic algorithm, in Proc. of 15th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO), Advances in Intelligent Systems and Computing (Springer), Vol. 1268, pp. 509-519, 2020.	D	1
2. O. Cosma , P.C. Pop, I. Zelina, An efficient soft computing approach for solving the two-stage transportation problem with fixed costs, in Proc. of : 14th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO), Advances in Intelligent Systems and Computing (Springer), Vol. 950, pp. 523-532, 2019.	D	1
3. I. A. Pap, C. Costea, O. Cosma , Distributed road condition monitoring system using Android devices, Carpathian Journal of Electronic and Computer Engineering, Vol. 10, No. 2, pp. 3-7, 2017	D	1
4. O. Cosma , Algorithm for automatic generation of ink and chalk illustrations, University of Pitesti Scientific Bulletin Series: Electronics and Computer Science, Vol. 17, No. 1, pp. 19-24, 2017	D	1
5. G Ardelean, O. Cosma , 3D images for the basins of attraction of iterative methods, Carpathian Journal of Electronic & Computer Engineering, Vol. 10, No. 1, pp. 26-30, 2017	D	1
6. O. Cosma , G. Ardelean, O. Matei, C. Costea, Java automation for a color printer ink tank refilling process, Carpathian Journal of Electronic and Computer Engineering, Vol. 10, No. 2, pp. 9-12, 2017	D	0.5
7. O. Cosma , G. Ardelean, O. Matei, A simple hatching filter for digital images, Carpathian Journal of Electronic and Computer Engineering, Vol. 10, No. 1, pp. 13-16, 2017	D	1
8. O. Cosma , G. Ardelean, A. Petrovan, Strong image steganography based on last significant bit substitution, Creative Mathematics and Informatics, Vol. 26, No. 1, pp. 61-67, 2017	D	1

9. O. Cosma , Image steganography tailored to objects contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp. 17-24, 2017	D	1
10. O. Cosma , A method for denoising image contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp.37-46, 2017	D	1
11. O. Matei, I. Vlad, R. Heb, A. Moga, O. Szika, O. Cosma , Comparison of various Epson smart glasses in terms of real functionality and capabilities, Carpathian Journal of Electrical Engineering, Vol. 10, No. 1, pp. 31-38, 2016.	D	0.25
12. O. Cosma , A Method for Improving the Progressive Image Coding Algorithms, Carpathian Journal of Electronic and Computer Engineering, Vol. 7, No. 2, pp. 7-10, 2014	D	1
13. O. Cosma , Robust watermarking of color images based on the Discrete Wavelet Transform, Carpathian Journal of Electronic and Computer Engineering, Vol. 6, No. 1, pp. 16-21, 2013	D	1
14. O. Cosma , Hiding secret data into a carrier image, Carpathian Journal of Electronic & Computer Engineering, Vol. 5, No. 1, pp. 53-56, 2012	D	1
15. O. Cosma , A method of uneven image compression for increasing the accuracy of relevant areas, Carpathian Journal of Electronic and Computer Engineering, Vol. 3, pp. 9-12, 2010	D	1
16. O. Cosma , The efficiency of the image subband coding algorithms based on zerotrees, Creative Mathematics and Informatics, Vol. 18, No. 2, pp. 153-158, 2009	D	1
17. O. Cosma , An evaluation of the multithreading benefits for a network scan application, Creative Mathematics and Informatics, Vol. 17, pp. 110-114, 2008	D	1
18. O. Cosma , Image Compression with a human touch, Creative Mathematics and Informatics, Vol. 17 no. 2, pp. 93-100, 2008	D	1
19. O. Cosma , A method for improving the error diffusion algorithms, Creative Mathematics and Informatics, Vol. 17 No. 3, pp. 375-380, 2008	D	1
20. O. Cosma , A filtering servlet for improving the security of e-mail addresses, Creative Mathematics and Informatics, Vol. 15, pp. 113-116, 2006	D	1
21. V. Lupse, O. Cosma , ERP extension - Supply Chain Management (SCM), Informatica Economica, Vol. 10, No. 2, pp. 120-124, 2006	D	1
22. O. Cosma , V. Lupșe, A Java implementation of the SPIHT coder, Creative Mathematics, Vol. 14, pp. 87-94, 2005.	D	1
23. V. Lupșe, O. Cosma , Object Programming of an Integrated System for a Small and Medium Enterprise. Commercial Subsystem - Part three, Informatica Economică Journal, ASE București, No. 4 (36), pp. 69-72, 2005	D	1
24. O. Cosma , Image dithering based on the wavelet transform, in Proc. of Int. Conf. on Theory and Applications of Mathematics and Informatics, ICTAMI, Thessaloniki, Greece, 16-18 September, Acta Universitatis Apulensis, No. 8, pp. 96-104, 2004	D	1

25. O. Cosma , Evaluation of the DWT filters for image compression, Carpathian Journal of Mathematics, Vol 20, No. 2, pp. 161-168, 2004	D	1
26. O. Cosma , Image processing based on the Wavelet Transform, Carpathian Journal of Mathematics, Vol. 20, No. 2, pp. 155-159, 2004	D	1
27. O. Cosma , V. Lupșe, Redundancy reduction for binary images based on adaptive prediction, Creative Mathematics, Vol. 13, pp. 65-70, 2004	D	1
28. V. Lupșe, O. Cosma , An application of the binary trees, Creative Mathematics, Vol. 13, pp. 85-89, 2004	D	1
29. O. Cosma , A method for coding the image subbands, in Proc. of Int. Conf. on Applied Mathematics (ICAM4), Baia Mare, Creative Mathematics, Vol. 13, pp. 59-64, 2004.	D	1
30. O. Cosma , The Efficiency of the EZW Image Coding Algorithm, Ingenerare Revista de la Facultad de Inginaria de la Pontificia Universidad Catolica de Valparaiso, Chile, Vol. 18, pp. 27-30, 2004	D	1
31. O. Cosma , A comparison of the image coding algorithms based on zerotrees, in Proc. of Int. Conf. Scientific research – a bridge to European integration, 3-4 November 2004, Annals of the Aurel Vlaicu University of Arad, Mathematics - Informatics series, pp.123-128, 2004.	D	1
32. O. Cosma , V. Lupșe, V. Hotea, An adaptive entropy coding technique for binary images, in Proc. of Int. Conf. Scientific research – a bridge to European integration, 3-4 November 2004, Annals of the Aurel Vlaicu University of Arad, Mathematics - Informatics series, pp. 129-133, 2004	D	1
33. O. Cosma , The deduction and evaluation of a new colour space for image compression, Carpathian Journal of Mathematics, Vol. 19, No. 1, pp. 35-40, 2003	D	1
34. O. Cosma , The Window Fourier transform – a suitable alternative for image compression?, Creative Mathematics, Vol. 12, pp. 71-76, 2003	D	1
35. O. Cosma , The Limitations of JPEG Compression, Creative Mathematics, Vol. 12, pp. 65-70, 2003	D	1
36. O. Cosma , The implementation of a SPIHT wavelet codec, in Proc. of Int. Conf. on Applied Mathematics (ICAM3), Baia Mare, Borșa, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 18, No. 2, pp. 193-198, 2002.	D	1
37. O. Cosma , Optimizing the color space conversion for image compression, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 17, No. 1-2, pp. 33-40, 2001	D	1
38. O. Cosma , Wavelet Transform Application in Image Compression, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 16, No. 2, pp. 283-296, 2000	D	1
39. O. Cosma , Extensions for the Image Broadcasting Protocol, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 13, No. 2, 1997, pp. 179-188	D	1

40. O. Cosma , An image broadcasting protocol, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 12, No.2, pp. 257-266, 1996.	D	1
41. O. Cosma , Screen savers for MS DOS, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 11, No. 1-2, pp. 121-128, 1995.	D	1
42. V. Berinde, O. Cosma , An elementary geometric construction performed by a computer, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 10, No. 1-2, pp. 99-107, 1994.	D	1
43. O. Cosma , Image processing routines for IBM PC family computers, Scientific Revue of the North University of Baia Mare, Ser. B, Mathematics-Informatics, Vol. 9, pp. 129-138, 1993.	D	1
TOTAL jurnale și conferințe din categoria D		41.75

TOTAL jurnale și conferințe din categoria A* + A + B + C + D	124.7
TOTAL jurnale și conferințe din categoria A* + A + B + C	82.95
TOTAL jurnale și conferințe din categoria A* + A + B	72
TOTAL jurnale și conferințe din categoria A* + A	56

c) Impactul rezultatelor

Nr.	Referința bibliografică a publicației care citează	S_k	$\sum_k S_k$	n_i	$\frac{\sum_k S_k}{\max(1, n_i - 2)}$
	O. Cosma , P.C. Pop and C. Pop Sitar, A two-level based genetic algorithm for solving the soft-clustered vehicle routing problem, Carpathian Journal of Mathematics, Vol. 38, No. 1, pp. 117-128, 2022.		17	3	17
1.	Y. Zhou, Y. Kou, M.C. Zhou, Bilevel Memetic Search Approach to the Soft-Clustered Vehicle Routing Problem, Transportation Science, 2022 https://doi.org/10.1287/trsc.2022.1186	4			
2.	Y. Shan, X. Ma, A hierarchical multi-color spraying path planning with clustered traveling salesman problem, 41st Chinese Control Conference (CCC), 2022, pp. 5823-5828 https://doi.org/10.23919/CCC55666.2022.9901628	1			
3.	L. Sun, Modeling and evolutionary algorithm for solving a multi-depot mixed vehicle routing problem with uncertain travel times, Journal of Heuristics, Electronic ISSN 1572-9397, 2022 https://doi.org/10.1007/s10732-022-09503-6	4			
4.	A. Petrovan, P. Pop, C. Sabo, I. Zelina, Novel two-level hybrid genetic algorithms based on different Cayley-type encodings for solving the	8			

	clustered shortest-path tree problem, Expert Systems with Applications, Vol. 215, 119372, 2023 https://doi.org/10.1016/j.eswa.2022.119372			
O. Cosma, P.C. Pop and I. Zelina, An effective genetic algorithm for solving the clustered shortest-path tree problem, IEEE Access, Vol. 9, pp. 15570-15591, 2021.		30	3	30
1.	A.H. Wang, X.B. Han, W.D. Liao, P. Liu, J.W. Song, D.M. Li, Optimization of Multi-Supplier Collaborative Transportation Based on K-Shortest Path Algorithm, in press, Chinese Journal of Mechanical Engineering, 2022 https://doi.org/10.21203/rs.3.rs-1669827/v1	1		
2.	P. Kadlec, Time-Domain Electromagnetic Identification Based on Rectangular Grooves, IEEE Access, Vol. 10, pp. 100104 – 100112, 2022 https://ieeexplore.ieee.org/document/9895421/references#references	4		
3.	T. Verma, Solving the shortest path problem on networks with fuzzy arc lengths using the complete ranking method, Operational Research, Vol. 22, pp. 3607–3631, 2022. https://link.springer.com/article/10.1007/s12351-022-00693-2	4		
4.	A. Petrovan, P.C. Pop, C. Sabo, I. Zelina, A Two-Level Hybrid Based Genetic Algorithm to Solve the Clustered Shortest-Path Tree Problem Using the Prüfer Code, in Proc. of International Conference on Hybrid Artificial Intelligence Systems (HAIS), Hybrid Artificial Intelligent Systems, Lecture Notes in Computer Science, vol 13469 pp. 323-334, 2022 https://link.springer.com/chapter/10.1007/978-3-031-15471-3_28	2		
5.	A. Petrovan, P. Pop, C. Sabo, I. Zelina, Novel two-level hybrid genetic algorithms based on different Cayley-type encodings for solving the clustered shortest-path tree problem, Expert Systems with Applications, Vol. 215, 119372, 2023 https://doi.org/10.1016/j.eswa.2022.119372	8		
6.	J. Diaz, O.Y. Diner, M. Serna, O. Serra, The multicolored graph realization problem, Discrete Applied Mathematics, in Press 2022. https://doi.org/10.1016/j.dam.2022.06.031	2		
7.	D. Ferone, P. Festa, S. Fugaro, T. Pastore, The resource constrained clustered shortest path tree problem: Mathematical formulation and Branch&Price solution algorithm, Networks, ISSN:1097-0037, 2022 https://doi.org/10.1002/net.22124	8 (AIS)		
8.	P.K.D. Cahya, N.R. Syambas, The Shortest Path in the Ring Topology Using Genetic Algorithm, 2021 15th International Conference on Telecommunication Systems, Services, and Applications (TSSA), 2021. https://ieeexplore.ieee.org/document/9768257	1		
O. Cosma, P.C. Pop and L. Cosma, An effective hybrid genetic algorithm for solving the generalized traveling salesman problem, Lecture Notes in Computer Science, Vol. 12886, pp. 113-123, 2021.		14	3	14
1.	A. Petrovan, P. Pop, C. Sabo, I. Zelina, Novel two-level hybrid genetic algorithms based on different Cayley-type encodings for solving the clustered shortest-path tree problem, Expert Systems with Applications, Vol. 215, 119372, 2023 https://doi.org/10.1016/j.eswa.2022.119372	8		
2.	S. Sharma, J. Chou, Accelerate Incremental TSP Algorithms on Time Evolving Graphs with Partitioning Methods, Algorithms (Emerging ISI), Vol. 15(2), 64, 2022.	2		

	https://www.mdpi.com/1999-4893/15/2/64			
3.	Y. Lu, J.K. Hao, Q. Wu, Solving the Clustered Traveling Salesman via TSP methods, PeerJ Computer Science, 2022. https://peerj.com/articles/cs-972/	4		
O. Cosma , P.C. Pop and D. Danciulescu, A novel matheuristic approach for a two-stage transportation problem with fixed costs associated to the routes, Computers and Operations Research, Vol. 118, art.no. 104906, 2020.		54	3	54
1.	A. Petrovan, P. Pop, C. Sabo, I. Zelina, Novel two-level hybrid genetic algorithms based on different Cayley-type encodings for solving the clustered shortest-path tree problem, Expert Systems with Applications, In Press, 119372, 2022 https://doi.org/10.1016/j.eswa.2022.119372	8		
2.	B. Amaliah, C. Fatichah, E. Suryani, A Supply Selection Method for Better Feasible Solution of Balanced Transportation Problem, Expert Systems with Applications, Vol. 203, 117399, 2022. https://doi.org/10.1016/j.eswa.2022.117399	8		
3.	A.M. Nayak, N.K. Chaubey, An Effective Demand based Optimal Route Generation in Transport System using DFCM and ABSO Approaches, International Journal of Advanced Computer Science and Applications (Emerging ISI), Vol. 13, No. 6, pp. 655-667, 2022. https://doi.org/10.14569/IJACSA.2022.0130678	2		
4.	E. Hosseini, L. Reinhardt, K.Z. Ghafoor, D.B. Rawat, Implementation and Comparison of Four Algorithms on Transportation Problem. In Science and Technologies for Smart Cities. SmartCity 360 2021. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Vol. 442, pp. 422-433, 2022. https://link.springer.com/chapter/10.1007/978-3-031-06371-8_28	1		
5.	R. Luo, S. Ji, T. Ji, An effective chaos-driven differential evolution for multi-objective unbalanced transportation problem considering fuel consumption, Applied Soft Computing, Vol. 101, 107058, 2021. https://doi.org/10.1016/j.asoc.2020.107058	8		
6.	D.G. Rossit, A.A. Toncovich, M. Fermani, Routing in waste collection: A simulated annealing algorithm for an Argentinean case study, Mathematical Biosciences and Engineering, Vol. 18(6), pp. 9579-9605, 2021. https://ri.conicet.gov.ar/handle/11336/151767	2		
7.	J. Szkutnik-Rogoż, J. Ziółkowski, J. Małachowski, M. Oszczypała, Mathematical Programming and Solution Approaches for Transportation Optimisation in Supply Network, Energies (Emerging ISI), Vol. 14, 7010, 2021. https://doi.org/10.3390/en14217010	2		
8.	G. Palubeckis, An Approach Integrating Simulated Annealing and Variable Neighborhood Search for the Bidirectional Loop Layout Problem, Mathematics, E-ISSN 2227-7390, Vol. 9, 5, 2021. https://doi.org/10.3390/math9010005	8		
9.	C. Serban, D. Carp, Using genetic algorithms to solve discounted generalized transportation problem, Studies in Informatics and Control, Vol. 30, No.3, pp. 29-38, 2021. https://sic.ici.ro/wp-content/uploads/2021/09/Art.-3-Issue-3-2021.pdf	2		

10.	H.A.EW. Khalifa, P. Kumar, S. Mirjalili, A KKM approach for inverse capacitated transportation problem in neutrosophic environment, Sādhanā, e-ISSN: 0973-7677, Vol. 46, 166, 2021. https://doi.org/10.1007/s12046-021-01682-5	2			
11.	M.C. Jones, T.A. Mazzuchi, S. Sarkani, A Simulation-Based Optimization Approach to Logistic and Supply Chain Network Design, Defense Acquisition Research Journal (ProQuest), Vol. 28, No.3, pp. 284-318, 2021. https://web.archive.org/web/20210616103742id_/https://www.dau.edu/library/arj/ARJ/ARJ97/ARJ97_Jones.pdf	1			
12.	N. Supattananon, P. Ruangchoengchum, The Optimal Selection of Distribution Model with Mixed Integer Programming: A Case Study of Beverage Distribution Firm, Sripatum Review of Science and Technology, Vol. 12, No. 1, pp. 37-50 https://ph02.tci-thaijo.org/index.php/spurst/article/view/240300	1			
13.	J. Zhou, H. Wang, J. Zhu, K. Ponnambalam, Strategies for Improving the Capabilities of a Weak Main Manufacturer in Complex Products Systems, IEEE Access, Vol. 8, pp. 208075 - 208095, 2020. https://doi.org/10.1109/ACCESS.2020.3037740	4			
14.	G. Sharma, V. Sharma, K.R Pardasani, M. Alshehri, Soft Set Based Intelligent Assistive Model for Multiobjective and Multimodal Transportation Problem, IEEE Access, Vol. 8, pp. 102646-102656, 2020. https://doi.org/10.1109/ACCESS.2020.2997302	4			
15.	D. Simić, V. Svirčević, J.L. Calvo-Rolle, V. Ilin, S.D. Simić, S. Simić Bio-Inspired System for MRP Production and Delivery Planning in Automotive Industry. In Proc. of 15th International Conference on Soft Computing Models in Industrial and Environmental Applications, Advances in Intelligent Systems and Computing, Vol 1268, pp. 550-559, 2020. https://doi.org/10.1007/978-3-030-57802-2_53	1			
O. Cosma , P.C. Pop and C. Sabo, An efficient hybrid genetic approach for solving the two-stage supply chain network design problem with fixed costs, Mathematics, Vol. 8, art. No. 712, 2020.			24	3	24
1.	A.M. Abed, L.F. Seddek, A. AlArjani, Enhancing Two-Phase Supply Chain Network Distribution via Three Meta-Heuristic Optimization Algorithms Subsidized by Mathematical Procedures, Journal of Advanced Manufacturing Systems (SCOPUS), Vol. 22, No. 3, pp. 1-32, 2023 https://dx.doi.org/10.1142/S0219686723500221	2			
2.	A. Mostafa, R. Elshaer, New Ant Colony Optimization Algorithms for Designing Two-Stage Supply Chain with Fixed Costs, Journal of Advanced Manufacturing Systems (SCOPUS), in Press, 2022. https://doi.org/10.1142/S021968672350018X	2			
3.	S. Santoso, R.M. Heryanto, Development of Two-Stage Transportation Problem Model with Fixed Cost for Opening the Distribution Centers, Jurnal Ilmiah Teknik Industri (EBSCO), Vol. 21, No.1, pp. 63-71, 2022. https://journals.ums.ac.id/index.php/jiti/article/view/17571	1			
4.	S. Santoso, R.M. Heryanto, Analisis Performansi Metode Heuristik untuk Masalah Distribusi Rantai Pasokan Dua Tahap dengan Biaya Tetap, Performa: Media Ilmiah Teknik Industri, Vol. 21, No. 2, pp. 200-207, 2022	1			

	https://doi.org/10.20961/performa.21.2.58274			
5.	S. Aminzadegan, M. Tamannaeei, M. Fazeli, An integrated production and transportation scheduling problem with order acceptance and resource allocation decisions, Applied Soft Computing, Vol. 112, 107770, 2021. https://doi.org/10.1016/j.asoc.2021.107770	8		
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TOTAL citări în forumuri de tip A*+A+B	274
TOTAL citări în forumuri de tip A*+A+B+C+D	342

d) Performanța academică

Cărți autor/editate și capitole publicate în edituri de categoria (conform clasamentului SENSE):	Punctaj
Link catalog Biblioteca Națională a României: https://aleph.bibnat.ro/F/S75FC2XX57Y1BDEYQHLYDSKKLPPXRQJ2L1Y2YQNVK1GNY3ELD5-51985?func=find-b&local_base=NOCIP&request=Cosma+Ovidiu	
1. Ovidiu Cosma , Programarea Calculatoarelor în Limbajul C, Vol1: Elemente Fundamentale, Editura Pim, Iași, 2017, ISBN 978-606-13-3670-8, 222 pagini.	2
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3. Ovidiu Cosma , Prelucrarea digitală a imaginilor, lucrări de laborator, Editura Pim, Iași, 2017, ISBN: 978-606-13-4061-3,2017, 115 pagini,	2
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5. Ovidiu Cosma , Tehnici de compresie a imaginilor, 200 pag. Ed. Risoprint Cluj Napoca, 2004, ISBN: 973-656-668-4	2
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Total	12

Publicarea unui curs universitar în format electronic	Punctaj
1. Programarea Calculatoarelor și Limbaje de Programare 1 http://cosma.cunbm.utcluj.ro/PCLP1/PCLP1.html	2
2. Programarea Calculatoarelor și Limbaje de Programare 2 http://cosma.cunbm.utcluj.ro/PCLP2/PCLP2.html	2
3. Fundamentele Programării http://cosma.cunbm.utcluj.ro/FP/FP.html	2
4. Programare Orientată pe Obiecte 1 http://cosma.cunbm.utcluj.ro/POO1/POO1.html	2
5. Prelucrarea Imaginilor http://cosma.cunbm.utcluj.ro/PRIM/PRIM.html	2
Total	10

Director/editor al unei reviste de tip: A B C D	Punctaj
1. Associate Editor, Carpathian Journal of Mathematics ISSN: 1584–2851, categoria A în 2019, 2020, factor impact: 1.778. https://www.carpathian.cunbm.utcluj.ro/editorial-board/	24
2. Associate Editor, Creative Mathematics and Informatics https://www.creative-mathematics.cunbm.utcluj.ro/editorial-board/	3
3. Editor - Carpathian Journal of Electronic and Computer Engineering https://ieec.utcluj.ro/cjece/editorial_board.html	3
4. Associate Editor - Carpathian Journal of Electrical Engineering http://cee.cunbm.utcluj.ro/boards/	3
Total	33

Director (coordonator/responsabil), membru al unui grant/proiect/contract/program de cercetare național/internațional	Punctaj
PROIECTE/GRANTURI INTERNAZIONALE	
1. Director – Proiect de cercetare - Building Trust in Ecosystems and Ecosystem Components (BIECO), finanțat de EUROPEAN COMMISSION Horizon 2020 - Research and Innovation Framework Programme, valoare totală 4.999.607,5 EUR, buget Universitatea Tehnică Cluj Napoca 431.250 EUR, 2020-2023 https://research.utcluj.ro/tl_files/research/Active%20projects/2022/Proiecte_in%20derulare_facultate_2022.pdf	8
PROIECTE/GRANTURI NATIONALE	
1. Director – Grant suport Horizon 2020 BIECO, Consolidarea încrederii în ecosisteme și componente ale ecosistemelor, finanțat de UEFISCDI, PN-III-P3-3.6-H2020-2020-0039, valoare 157.581 lei (> 31.500 EUR), 2020-2023 https://research.utcluj.ro/tl_files/research/Active%20projects/2022/Proiecte_in%20derulare_facultate_2022.pdf	2
Total	10

Membru în comitetul științific (de program) al unor conferințe, simpozioane, workshop-uri, de tip: A B C D	Punctaj
1. 13 th International Conference on Computational Intelligence in Security for Information Systems, CISIS 2020, 24-26 June, Burgos, Spain.	1
TOTAL Membru în comitetul științific CONFERINTE DE TIP C	1
1. 15 th International Conference on Computational Intelligence in Security for Information Systems, CISIS, 5-7 September 2022, Salamanca, Spain.	0,5
2. 17 th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, 6-8 September 2022, Salamanca, Spain.	0,5
3. 14 th International Conference on Computational Intelligence in Security for Information Systems, CISIS, 22-24 September 2021, Bilbao, Spain.	0,5
4. Special Session on Building Trust in Ecosystems and Ecosystem Components, CISIS, 22-24 September 2021, Bilbao, Spain.	0,5
5. 16 th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, 22-24 September 2021, Bilbao, Spain.	0,5
6. 15 th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, Burgos, 16-18 September 2020, Burgos, Spain.	0,5
7. 7 th International Conference on Modelling and Development of Intelligent Systems, Sibiu, Romania, 22-24 October, 2020.	0,5
8. 8 th International Conference on Modelling and Development of Intelligent Systems, Sibiu, Romania, 28-30 October, 2022.	0,5
TOTAL Membru în comitetul științific CONFERINTE DE TIP D	4
Total	5

Organizare evenimente științifice / școli de vară	Punctaj
1. Membru în comitetul de organizare Special Session on Cybersecurity and Trusted Supply Chains of ICT, CISIS, Salamanca, Spain, 5-7 septembrie 2022 http://www.2022.cisisconference.eu/accepted-special-sessions/	1
2. Director concurs de programare pentru studenți, organizat de Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2022 https://dmi.cunbm.utcluj.ro/?page_id=1371	2
3. Membru în comitetul de organizare al conferinței XGEN 2021 https://www.xgen.ro/xgen-2021/organizatori-xgen-2021/	1
4. Membru în comitetul de organizare al conferinței XGEN 2020 https://www.xgen.ro/xgen-3rd-edition/organizatori-xgen-2020/	1
5. Membru în comitetul de organizare al conferinței XGEN 2019 https://www.xgen.ro/xgen-2019/organizatori-xgen-2019/	1
6. Membru în comitetul de organizare al conferinței XGEN 2018 https://www.xgen.ro/xgen-2018/organizatori-xgen-2018/	1
7. Organizator al concursului de matematică – informatică, Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2018	1
8. Organizator al concursului de matematică – informatică, Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2019	1
9. Organizator al concursului de matematică – informatică, Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2020	1
10. Organizator al concursului de matematică – informatică, Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2021	1

11. Organizator al concursului de matematică – informatică, Departamentul de Matematică și Informatică, Centrul Universitar Nord Baia Mare, 2022	1
Total	12

Brevete si invenții active (OSIM, ORDA, etc.)	Punctaj
1. Ovidiu Cosma , Pavel Cristea, Energy supply remote control device, Brevet de invenție nr. 135420. https://ro.espacenet.com/publicationDetails/biblio?FT=D&date=19920715&DB=&locale=ro_RO&CC=RO&NR=100401B1&KC=B1&ND=4	12
2. Maria Cristea, Radu Lupan, Pavel Cristea, Ovidiu Cosma , Ștefan Marinca, Binary coding device of the numerical display at a mechanical counter, Brevet de invenție nr. 141113. https://ro.espacenet.com/publicationDetails/biblio?II=1&ND=3&adjacent=true&locale=ro_RO&FT=D&date=19931002&CC=RO&NR=104001B1&KC=B1	4
Total	16

Dezvoltarea de pachete și instrumente software	Punctaj
1. Vulnerabilities Forecasting Tool, autor: O. Cosma http://vf.bienco.org/	2
2. Failure Prediction Tool, autori: O. Cosma , C. Sabo http://cosma.cunbm.utcluj.ro/FPT.pdf	2
3. Data Collection Tool, autori: C. Sabo, O. Cosma , M. Măcelaru https://dct.bienco.org/	2
Total	6

Consolidarea de echipe de cercetare dovedită prin publicații, participări în proiecte, dezvoltarea de instrumente software, resurse și colecții de date de largă utilitate	Punctaj
Am format o echipa de cercetare in domeniile optimizării combinatoriale și învățării automate, dovedită prin publicații si participări in proiecte de cercetare. Membrii echipei sunt: 1. P. C. Pop : din 2018 până in prezent, 19 articole publicate împreună, face parte din echipa de cercetare a două proiecte pe care le coordonez; 2. I. Zelina : din 2018 până in prezent, 5 articole publicate împreună, face parte din echipa de cercetare a două proiecte pe care le coordonez; 3. C. Sabo : din 2019 până in prezent, 9 articole publicate împreună, face parte din echipa de cercetare a unui proiect pe care îl coordonez; 4. G. Ardelean : din 2016 până in prezent, 5 articole publicate împreună; 5. O. Matei : din 2016 până in prezent, 4 articole publicate împreună; 6. M. Măcelaru : din 2020 până in prezent, 1 articol publicat împreună si face parte din echipa de cercetare a unui proiect pe care îl coordonez; 7. C. Pop Sitar: din 2019 până în prezent, 2 articole publicate împreună.	1 x 4 = 4 (4 ani cu 5 membri – din 2019)
Total	4

TOTAL valori pentru perspectiva d)	108
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Data: 12.12.2022

Semnătura