FIȘA DE VERIFICARE

a indeplinirii standardelor minimale CNATDCU de Informatică pentru profesor universitar

conf. dr. Adrian Marius Deaconu

Îndeplinirea standardelor minimale CNATDCU

Perspectiva	Punctaje pe categorii	Standarde minimale	**Puntaj realizat**	Standard îndeplinit
b)	A* = 24 A = 60 B = 20 C = 37	A*+A ≥ 24 puncte	**84**	Da
		A*+A+B ≥ 40 puncte	**104**	Da
		A*+A+B+C ≥ 56 puncte	**141**	Da
c)	A* = 135 A = 72 B = 150 C = 81 D = 13	A*+A+B ≥ 40 puncte	**357**	Da
		A*+A+B+C+D ≥ 120 puncte	**451**	Da
d)		≥ 60 puncte	**104**	Da
		Minim un proiect, cu echipă de cel puţin 2 (doi) membri, obținut de candidat prin competiție la nivel național sau internațional		Da

Perspectiva b), producţia ştiinţifică

Nr. crt.	Articol	Categorie	Puncte
Categoria A*			
1	Cotfas DT, **Deaconu AM**, Cotfas PA, Application of successive discretization algorithm for determining photovoltaic cells parameters. Energy Conversion and Management, vol. 196, pp. 545-556, 2019, WOS:000484881400041 https://www.sciencedirect.com/science/article/pii/S0196890419307083	A*	12
2	Tayyebi J, **Deaconu A**, Expanding maximum capacity path under weighted sum-type distances, AIMS Mathematics, vol. 6(4), pp. 3996-4010, 2021, WOS:000672529700001 https://www.aimspress.com/article/doi/10.3934/math.2021237	A*	12
Categoria A			
3	Udroiu R, **Deaconu AM**, Nanau C-Ş, Data Delivery in a Disaster or Quarantined Area Divided into Triangles Using DTN-Based Algorithms for Unmanned Aerial Vehicles, Sensors, vol. 21(11), 3572, 2021, WOS:000660665200001 https://doi.org/10.3390/s21113572	A	8
4	**Deaconu AM**, Udroiu R, Nanau C-Ş, Algorithms for Delivery of Data by Drones in an Isolated Area Divided into Squares, Sensors, vol. 21(16), pp. 5472, 2021, WOS:000690125700001 https://doi.org/10.3390/s21165472	A	8
5	Tayyebi J, **Deaconu A**, Inverse Generalized Maximum Flow Problems, Mathematics, vol. 7(10), 899, 2019, WOS:000498404700028 https://doi.org/10.3390/math7100899	A	8
6	**Deaconu AM**, Majercsik L, Flow Increment through Network Expansion, Mathematics, vol. 9(18), 2308, 2021, WOS:000700957300001 https://doi.org/10.3390/math9182308	A	8
7	**Deaconu AM**, Spridon D., Adaptation of Random Binomial Graphs for Testing Network Flow Problems Algorithms, Mathematics, vol. 9(15), 1716, 2021, WOS:000682087200001 https://doi.org/10.3390/math9151716	A	8
8	Bhagwat G, Kumari S, Patekar V, **Deaconu AM**, Novel Static Multi-Layer Forest Approach and Its Applications, Mathematics, vol. 9(21), 2650, 2021. WOS:000718857600001 https://doi.org/10.3390/math9212650	A	4
9	**Deaconu AM**, Ciupala L. Inverse Minimum Cut Problem with Lower and Upper Bounds, Mathematics, vol. 8(9), 1494, WOS:000582024000001, 2020 https://doi.org/10.3390/math8091494	A	8
10	Ciupala L, **Deaconu A**., Incremental Minimum Flow Algorithms, Mathematics, vol. 9(9), 1025, 2021, WOS:000650602000001 https://doi.org/10.3390/math9091025	A	8

Categoria B			
11	**Deaconu AM**, Tayyebi J, Increasing the maximum capacity path in a network and its application for improving the connection between two routers, Tsinghua Science and Technology, vol. 29(3), pp. 753-765, 2024, WOS:001123318200010 https://ieeexplore.ieee.org/document/10339725	B	4
12	**Deaconu AM**, Tayyebi J, Inverse Maximum Capacity Path Problems Under Sum-Type and Max-Type Distances and Their Practical Application to Transportation Networks, IEEE Access, vol. 8, pp. 225957-225966, 2020, WOS:000603725400001 https://ieeexplore.ieee.org/document/9296205	B	4
13	Cotfas DT, **Deaconu AM**, Cotfas PA, Hybrid successive discretisation algorithm used to calculate parameters of the photovoltaic cells and panels for existing datasets, IET Renewable Power Generation, vol. 15(15), pp. 3661-3687, 2021, WOS:000678711100001 https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/rpg2.12262	B	4
14	**Deaconu AM**, Cotfas DT, Cotfas PA, Calculation of seven photovoltaic cells parameters using parallelized successive discretization algorithm, International Journal of Photoenergy, vol. 2020, 6669579, 2020, WOS:000601121800001 https://www.hindawi.com/journals/ijp/2020/6669579/	B	4
15	**Deaconu AM**, Deaconu O, Heuristic and Numerical Geometrical Methods for Estimating the Elevation and Slope at Points Using Level Curves. Application for Embankments, Applied Sciences, vol. 11(13), 6176, 2021, WOS:000670695800001 https://doi.org/10.3390/app11136176	B	4
Categoria C			
16	Tayyebi J, **Deaconu AM**, Bigdeli H, Niksirat M, Shortest path interdiction problem with convex piecewise-linear costs, Computational and Applied Mathematics, vol. 42, pp. 1-20, 2023, WOS:001067497700001 https://link.springer.com/article/10.1007/s40314-023-02445-0	C	1
17	Ciurea E, **Deaconu A**, Inverse minimum flow problem, Journal of Applied Mathematics and Computing, vol. 23, pp. 193-203, 2007, WOS:000213053800014 https://link.springer.com/article/10.1007/BF02831968	C	2
18	Spridon D, **Deaconu AM**, Ciupala L, Fast CUDA Geomagnetic Map Builder, 23rd International Conference on Computational Science and Its Applications (ICCSA), Lecture Notes in Computer Science, vol. 13956, pp. 126–138, 2023, CORE C, WOS:001166618800009 https://link.springer.com/chapter/10.1007/978-3-031-36805-9_9	C	2
19	**Deaconu AM**, Spridon DE, Ciupala L, Finding minimum loss path in big networks, 22nd International Symposium on Parallel and Distributed Computing (ISPDC), pp. 39-44, 2023, CORE C https://ieeexplore.ieee.org/abstract/document/10272429	C	2
20	Tayyebi J, Rîtan M-L, **Deaconu A**, Generalized Maximum Capacity Path Problem with Loss Factors, In Proceedings of the 13th International Conference on Operations Research and Enterprise Systems, ISBN 978-989-758-681-1, ISSN 2184-4372, pp. 302-308, 2024, CORE C https://www.scitepress.org/ProceedingsDetails.aspx?ID=Rt4L9r7I0YA=&t=1	C	2
21	**Deaconu A**, The Inverse Maximum Flow Problem Considering Linfinite Norm, RAIRO-Operations Research, vol. 42(3), pp. 401-414, 2008, WOS:000319236100003 https://www.cambridge.org/core/journals/rairo-operations-research/article/abs/inverse-maximum-flow-problem-considering-l-norm/F20E2DB65D45097F9B14985E2640B90A	C	2
22	**Deaconu A**, Ciurea E, Inverse feasibility problems of the inverse maximum flow problems, Sadhana-Academy Proceedings in Engineering Sciences, vol. 38, pp. 199-209, 2013, WOS:000319236100003 http://link.springer.com/article/10.1007/s12046-013-0134-4	C	2

23	**Deaconu A**, Ciurea E, The inverse maximum flow problem under L_k norms, Carpathian Journal of Mathematics, vol. 28(1), pp. 59-66, 2012, WOS:000301890000007 https://www.carpathian.cunbm.utcluj.ro/article/the-inverse-maximum-flow-problem-under-l_k-norms/	C	2
24	Tayyebi J, Rîtan ML, **Deaconu AM**, Widest Path in Networks with Gains/Losses, Axioms, vol. 13(2), 127, 2024, WOS:001172018900001 https://doi.org/10.3390/axioms13020127	C	2
25	Deaconu O, **Deaconu AM**, Chitonu GC, Taus D, The Online Teaching System as a Sustainable Way of Learning, Sustenaibility, vol. 14(18), 11556, 2022, WOS:000856881100001 https://www.mdpi.com/2071-1050/14/18/11556	C	2
26	**Deaconu A**, Algorithm for solving a puzzle problem, Bull. Transilv. Univ. Braşov. Series III: Mathematics, Informatics and Physics, vol. 8(2), pp. 125-130, 2015 http://webbut2.unitbv.ro/BU2015/Series%20III/BULETIN%20III/11.%20Deaconu.pdf	C	2
27	**Deaconu A**, The inverse maximum flow problem with lower and upper bounds for the flow, Yugosl. J. Oper. Res., vol. 18(1), pp. 13-22, 2008 http://elib.mi.sanu.ac.rs/files/journals/yjor/35/yujorn35p13-22.pdf	C	2
28	Ciupala L, **Deaconu AM**, Minimum cost flow in a network with an overestimated arc capacity, Bulletin of the Transilvania University of Brasov. Series III: Mathematics, Informatics and Physics, vol. 12(1), pp. 107-112, 2019 https://webbut.unitbv.ro/index.php/Series_III/article/view/1186	C	2
29	**Deaconu A**, Alternative algorithms for finding the conex components for a graph, International Journal of Computers Communications & Control, vol. 1(s), pp. 175-180, 2006, WOS:000203014800028 https://0a10qlj3h-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000203014800028	C	2
30	Ciupala L, **Deaconu AM**, Inverse maximum flow problem in planar networks, Bulletin of the Transilvania University of Brasov. Series III: Mathematics, Informatics and Physics, vol. 12(2), pp. 113-122, 2019 https://webbut.unitbv.ro/index.php/Series_III/article/view/1187	C	2
31	Ciupala L, **Deaconu AM**, Spridon D, Incremental Minimum Spanning Tree Algorithms Bulletin of the Transilvania University of Brasov. Series III: Mathematics, Informatics and Physics, vol. 13(1), pp. 343-346, 2020 https://webbut.unitbv.ro/index.php/Series_III/article/view/488	C	2
32	Ciupala L, **Deaconu AM**, Spridon D, Algorithm for Merging and Interpolating Clusters in Overlaping Images, Bulletin of the Transilvania University of Brasov. Series III: Mathematics, Informatics and Physics, vol. 13(2), pp. 697-704, 2020 https://webbut.unitbv.ro/index.php/Series_III/article/view/460	C	2
33	Ciupala L, **Deaconu AM**, Spridon D, IDW Map Builder and Statistics of Air Pollution In Brasov, Bulletin of the Transilvania University of Brasov. Series III: Mathematics and Computer Science, vol. 1(63), no. 1, pp. 247-256, 2021 https://webbut.unitbv.ro/index.php/Series_III/article/view/435	C	2
34	Ciupala L, **Deaconu AM**, Majercsik L, Shortest paths in a digraph with an underestimated arc weight, Bulletin of the Transilvania University of Brasov. Series III: Mathematics and Computer Science, vol. 2(64), no. 1, pp. 193-196, 2022 https://webbut.unitbv.ro/index.php/Series_III/article/view/1872	C	2

Îndeplinirea standardelor minime, perspectiva b):

Punctaje pe categorii	Formula	Valoare minimă	**Puntaj realizat****
A* = 24 A = 60 B = 20 C = 37	A*+A	24	**84**
	A*+A+B	40	**104**
	A*+A+B+C	56	**141**

** Pentru articolele publicate în 2023 și 2024 au fost considerate punctajele conform listei UEFISCDI cu AIS pe culori publicată în iunie 2023, deoarece în momentul redactării acestui document listele cu încadrările articolelor în 2024 nu existau (https://uefiscdi.gov.ro/scientometrie-reviste)

Perspectiva c), impactul rezultatelor (citări, selecţie)

Nr. crt.	Articol citat	Articol care citează	Categ. articol care citează	Punc te
1	Cotfas DT, **Deaconu AM**, Cotfas PA, Application of successive discretization algorithm for determining photovoltaic cells parameters. Energy Conversion and Management, vol. 196, pp. 545-556, 2019, WOS:000484881400041 https://www.sciencedirect.com/science/article/pii/S0196890419307083	Selem SI, El-Fergany AA, Hasanien HM, Artificial electric field algorithm to extract nine parameters of triple-diode photovoltaic model, International Journal of Energy Research, issn: 1099-114X, vol. 45(1), pp. 590-604, 2020 https://onlinelibrary.wiley.com/doi/10.1002/er.5756	A*	12
2		Choulli I, Elyaqouti M, Arjdal E, Saadaoui DBD, Lidaighbi S, Elhammoudy A, Abazine I, Hybrid optimization based on the analytical approach and the particle swarm optimization algorithm (Ana-PSO) for the extraction of single and double diode models parameters, Energy, vol. 283, 2023 https://www.sciencedirect.com/science/article/abs/pii/S0360544223024374	A*	3
3		Nunes HGG, Silva PNC, Pombo JAN, Mariano SJPS, Calado MRA, Multiswarm spiral leader particle swarm optimisation algorithm for PV parameter identification, Energy Conversion and Management, Volume 225, 2020, 113388, ISSN 0196-8904 https://www.sciencedirect.com/science/article/abs/pii/S0196890420309249?via%3Dihub	A*	12
4		Dong XJ, Shen JN, He GX, Ma ZF, He YJ, A general radial basis function neural network assisted hybrid modeling method for photovoltaic cell operating temperature prediction, Energy, vol. 234, 121212, 2021, ISSN 0360-5442 https://www.sciencedirect.com/science/article/abs/pii/S0360544221014602	A*	12
5		Belabbes F, Cotfas DT, Cotfas PA, Medles M, Using the snake optimization metaheuristic algorithms to extract the photovoltaic cells parameters, Energy Conversion and Management, vol. 292, 2023 https://www.sciencedirect.com/science/article/abs/pii/S0196890423007197	A*	12
6		Sohani A, Sayyaadi H, Doranehgard MH, Nizetic S, Li LKB, A method for improving the accuracy of numerical simulations of a photovoltaic panel, Sustainable Energy Technologies and Assessments, Volume 47, 2021, 101433, ISSN 2213-1388 https://www.sciencedirect.com/science/article/abs/pii/S2213138821004434	A	8

7		Oulcaid M, Fadil HE, Ammeh L, Yahya A, Giri F, One shape parameter-based explicit model for photovoltaic cell and panel, Sustainable Energy, Grids and Networks issn: 23524677, vol. 21, 100312, 2020 https://www.sciencedirect.com/science/article/abs/pii/S2352467719302590	B	4
8		El-Fergany AA, Parameters identification of PV model using improved slime mould optimizer and Lambert W-function, Energy Reports, Volume 7, pp. 875-887, 2021, ISSN 2352-4847 https://www.sciencedirect.com/science/article/pii/S2352484721000949	B	4
9		Sabadus A, Paulescu M. On the Nature of the One-Diode Solar Cell Model Parameters, Energies, vol. 14(13), 3974, 2021. https://doi.org/10.3390/en14133974	C	2
10		Ridha HM, Hizam H, Mirjalili S, Othman ML, Ya'acob ME, Abualigah L, A Novel Theoretical and Practical Methodology for Extracting the Parameters of the Single and Double Diode Photovoltaic Models, IEEE Access, vol. 10, pp. 11110-11137, 2022 https://ieeexplore.ieee.org/document/9681067	B	4
11		Lee DJ, Jung S, Jeong KH, Lee DH, Lee SH, Young-Kwon Park, Eilhann E. Kwon, Catalytic pyrolysis of cow manure over a Ni/SiO2 catalyst using CO2 as a reaction medium, Energy, Volume 195, 117077, 2020, ISSN 0360-5442, https://www.sciencedirect.com/science/article/abs/pii/S0360544220301845	A*	12
12		Kim JH, Jung S, Park YK, Kwon EE, CO2-cofed catalytic pyrolysis of tea waste over Ni/SiO2 for the enhanced formation of syngas, Journal of Hazardous Materials, Volume 396, 122637, 2020, ISSN 0304-3894 https://www.sciencedirect.com/science/article/abs/pii/S0304389420306269	A*	12
13		Kumar SS, Balakrishna K, A novel optimal identification of various solar PV cell parameters by using MRDT controller, Scientific Reports, vol. 14, 10467, 2024 https://www.nature.com/articles/s41598-024-61359-x	A	8
14		Sari-Ali I, Rahmoun K, Chikh-Bled B, Boumédiène Benyoucef, Younes Menni, Mahyar Ghazvini, Houari Ameur, Mohammad Hossein Ahmadi, Mono-crystalline silicon photovoltaic cells under different solar irradiation levels, Optik, Volume 223, 2020, 165653, ISSN 0030-4026 https://www.sciencedirect.com/science/article/abs/pii/S0030402620314856	B	4
15		Węcel D, Jurczyk M, Uchman W, Skorek-Osikowska A. Investigation on System for Renewable Electricity Storage in Small Scale Integrating Photovoltaics, Batteries, and Hydrogen Generator. Energies, vol. 13(22), 6039, 2020. https://doi.org/10.3390/en13226039	B	4
16		Elkholy MM, El-Hameed MA, El-Fergany AA, Artificial ecosystem-based optimiser to electrically characterise PV generating systems under various operating	B	4

		conditions reinforced by experimental validations, IET Renewable Power Generation, issn 1752-1424, vol. 15(3), 701-715, 2021 https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/rpg2.12059		
17		Dong L, Yang F, He A, Guo Z, Yu J, Zuo J, Investigation on energy-regenerative shock absorber with adjustable damping and power for freight wagons, Energy Conversion and Management, Volume 254, 2022, 115228, ISSN 0196-8904 https://www.sciencedirect.com/science/article/abs/pii/S0196890422000243	A*	12
18		Zhou Y, Li R, Lv Z, Liu J, Zhou H, Chunming Xu, Green hydrogen: A promising way to the carbon-free society, Chinese Journal of Chemical Engineering, Volume 43, Pages 2-13, 2022, ISSN 1004-9541 https://www.sciencedirect.com/science/article/abs/pii/S1004954122000568	B	4
19		Louzazni M, Cotfas DT, Cotfas PA. Management and Performance Control Analysis of Hybrid Photovoltaic Energy Storage System under Variable Solar Irradiation. Energies, vol. 13(12), 3043, 2020. https://doi.org/10.3390/en13123043	B	4
20		Cotfas DT, Cotfas PA, Oproiu MP, Ostafe PA, Analytical versus Metaheuristic Methods to Extract the Photovoltaic Cells and Panel Parameters, International Journal of Photoenergy, issn 1110-662X, vol. 2021, 3608138, 2022 https://www.hindawi.com/journals/ijp/2021/3608138/	B	4
21		Kotb MF, El-Fergany AA, Gouda EA, Agwa AM, Dynamic Performance Evaluation of Photovoltaic Three-Diode Model-Based Rung-Kutta Optimizer, IEEE Access, vol. 10, pp. 38309-38323, 2022 https://ieeexplore.ieee.org/document/9749278	B	4
22		Sari-Ali I, Benyoucef B, Chikh-Bled B, Menni Y, Chamkha AJ, Lorenzini G, Study of models using one or two exponentials to simulate the characteristic current-voltage of silicon solar cells. European Journal of Electrical Engineering, Vol. 21, No. 3, pp. 285-289, 2019. https://www.iieta.org/journals/ejee/paper/10.18280/ejee.210304	C	2
23		Burduhos BG, Visa I, Neagoe M, Cretescu NR, Simulated vs. produced electrical energy of a 9.6 kwp pv system installed in a temperate mountain climate, Journal of science and arts, ISSN 18449581, vol. 20(1), pp. 215-224, 2020 http://www.josa.ro/docs/josa_2020_1/c_03_Burduhos_215-224_10p.pdf	C	2
24		Rasheed M, Mohammed OY, Shihab S, Al-Adili A, Explicit Numerical Model of Solar Cells to Determine Current and Voltage, Journal of Physics: Conference Series, ISSN 1742-6596, 1795 012043, 2021 https://iopscience.iop.org/article/10.1088/1742-6596/1795/1/012043/meta	C	2

25		Rasheed M, Mohammed OY, Shihab S, Al-Adili A, A comparative Analysis of PV Cell Mathematical Model, Journal of Physics: Conference Series, ISSN 1742-6596, 1795 012042, 2021 https://iopscience.iop.org/article/10.1088/1742-6596/1795/1/012042/meta	C	2
26		Rasheed M, Shihab S, Mohammed OY, Al-Adili A, Parameters Estimation of Photovoltaic Model Using Nonlinear Algorithms, Journal of Physics: Conference Series, ISSN 1742-6596, 1795 012042, 2021 https://iopscience.iop.org/article/10.1088/1742-6596/1795/1/012058/meta	C	2
27		Gnetchejo PJ, Ndjakomo Essiane S, Dadjé A, A Self-adaptive Algorithm with Newton Raphson Method for Parameters Identification of Photovoltaic Modules and Array, Transactions on Electrical and Electronic Materials, vol. 22, pp. 869–888, 2021 https://link.springer.com/article/10.1007/s42341-021-00312-5	C	2
28		Gnetchejo PJ, Essiane SN, Dadjé A, Ele P, A combination of Newton-Raphson method and heuristics algorithms for parameter estimation in photovoltaic modules, Heliyon, Volume 7, Issue 4, e06673, 2021, ISSN 2405-8440 https://www.sciencedirect.com/science/article/pii/S2405844021007763#bib49	C	2
29		Farjami AA, Yaghoobi M, Parameter Estimation for Phase and Frequency Synchronization of the Single Phase Full-Bridge Photovoltaic Grid-Connected Inverter Using New Chaotic Grey Wolf Algorithm. Journal of Electrical Engineering & Technology, 2021 https://link.springer.com/article/10.1007/s42835-021-00754-0	C	2
30		Farjami AA, Yaghoobi M, Parameters Estimation of the Inverter Connected to a Single-Phase Full-Bridge Photovoltaic System with Adaptive Chaotic Grey Wolf Algorithm to Synchronize Phase and Frequency, Signal Processing and Renewable Energy, vol. 4(4) , pp. 39-52, 2020 http://spre.azad.ac.ir/article_675371.html	D	1
31		Yaden MF, Baghaz EH, Melhaoui M, Hirech K, Contribution to the Control of the Power Switches of DC-DC Converters with two stages of a Photovoltaic System, The International Conference on Energy and Green Computing (ICEGC'2021) ISSN 22671242, 2022 https://www.e3s-conferences.org/articles/e3sconf/abs/2022/03/e3sconf_icegc2022_00024/e3sconf_icegc2022_00024.html	D	1
32		Burduhos BG, Visa I, Neagoe M, Devetakovic M, Cretescu NR, Comparative Analysis of Software Accuracy in Photovoltaic Energy Estimation for a Temperate Mountain Climate, Solar Energy Conversion in Communities, Springer Proceedings in Energy, 2020 https://link.springer.com/chapter/10.1007/978-3-030-55757-7_9	D	1

33		Yadav A, ICT and Data Sciences, IoT-Integrated Photovoltaic System for Improved System Performance, Taylor Francis, ISBN 9781003048862, 2022 https://www.taylorfrancis.com/chapters/edit/10.1201/9781003048862-12/iot-integrated-photovoltaic-system-improved-system-performance-apurv-yadav	B (carte)	4
34		Nunes HGG, Portugal JPA, Pombo JAN, Mariano SJPS, Calado MRA, Parameter Estimation of Per-Unit Photovoltaic Models Using Optimization Algorithms: Comparative Study, Springer, ISBN 978-3-031-07511-7, 2022 https://link.springer.com/chapter/10.1007/978-3-031-07512-4_6	B (carte)	4
35		Madhiarasan M, Cotfas DT, Cotfas PA, Barnacles Mating Optimizer Algorithm to Extract the Parameters of the Photovoltaic Cells and Panels, Sensors,vol. 22, 6989, 2022. https://doi.org/10.3390/s22186989	B	4
36		Shaheen A, El-Sehiemy R, El-Fergany A, Ginidi A, Representations of solar photovoltaic triple-diode models using artificial hummingbird optimizer, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol. 44, issue 4, pp. 8787-8810, 2022 https://www.tandfonline.com/doi/abs/10.1080/15567036.2022.2125126	B	4
37		Sharma P, Raju S, Salgotra R, Gandomi A, Parametric estimation of photovoltaic systems using a new multi-hybrid evolutionary algorithm, Energy Reports, vol. 10, pp. 4447-4464, 2023 https://www.sciencedirect.com/science/article/pii/S235248472301538X	C	2
38		Sharma A, Lim WH, El-Kenawy E, Tiang SS, Bhandari AS, Alharbi A, Khafaga DS, Identification of photovoltaic module parameters by implementing a novel teaching learning based optimization with unique exemplar generation scheme (TLBO-UEGS), Energy Reports, vol. 10, pp. 1485-1506, 2023 https://www.sciencedirect.com/science/article/pii/S2352484723011605	C	2
39		Sabadus A, Stefu N, Paulescu M, Evaluating Outdoor Performance of PV Modules Using an Innovative Explicit One-Diode Model, Energies, vol. 17, 2547, 2024 https://www.mdpi.com/1996-1073/17/11/2547	C	2
40		Sharma P, Raju S, Efficient estimation of PV parameters for existing datasets by using an intelligent algorithm, Optik, vol. 295, 2023 https://www.sciencedirect.com/science/article/abs/pii/S0030402623009658	C	2
41		Saadaoui D, Elyaqouti M, Assalaou K, Hmamou DB, Lidaighbi S, Arjdal E, Choulli I, Elhammoudy A, Extraction of single diode PV cell/module model parameters using a hybrid BMO approach with Lambert's W function, International Journal of Ambient Energy, vol. 45(1), 2024 https://www.tandfonline.com/doi/full/10.1080/01430750.2024.2304331	C	2

42		Gnetchejo PJ, Daniel MW, Dadjé S, Salomé NE, Pilario KE, Pierre E, Zhicong C, A new approach based on modified social network search algorithm combined with dichotomy method for solar photovoltaic parameter estimation, International Journal of Ambient Energy, vol. 45(1), 2024 https://www.tandfonline.com/doi/full/10.1080/01430750.2023.2281611	C	2
43		Madhiarasan M, Cotfas DT, Cotfas PA, Black Widow Optimization Algorithm Used to Extract the Parameters of Photovoltaic Cells and Panels, Mathematics, vol. 11(4), 967, 2023 https://doi.org/10.3390/math11040967	C	2
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Îndeplinirea standardelor minime, perspectiva c):

Punctaje pe categorii	Formula	Valoare minimă	**Puntaj realizat****
A* = 135 A = 72 B = 150 C = 81 D = 13	A*+A+B	40	**357**
	A*+A+B+C+D	120	**451**

** Pentru citările din 2023 si 2024 au fost considerate punctajele conform listei UEFISCDI cu AIS pe culori publicată în iunie 2023, deoarece în momentul redactării acestui document listele cu încadrările articolelor în 2024 nu existau (https://uefiscdi.gov.ro/scientometrie-reviste).

Perspectiva d), performanţa academică

	Categ.	Puncte
i) Cărţi şi capitole publicate în edituri		
Deaconu A, Moise G, Sasu LM, Iniţiere în Java prin comentarii teoretice şi aplicaţii, Editura MatrixRom, isbn: 978-606-25-0592-9, 2020 https://www.matrixrom.ro/produs/initiere-in-java-prin-comentarii-teoretice-si-aplicatii/	carte	2
Deaconu A, Programarea în Limbajele C/C++ şi aplicaţii, Editura Albastra, isbn:978-973-650-211-8, 2008 https://drive.unitbv.ro/s/WPtTZkP4yXTx6H8	carte	2
Moise G, Nicoară ES, **Deaconu A**, Grafuri şi fluxuri în reţele. O abordare teoretică şi aplicaţii practice, Editura MatrixRom, isbn: 978-606-25-0670-4, 2021 https://www.matrixrom.ro/produs/grafuri-si-fluxuri-in-retele-o-abordare-teoretica-si-aplicatii-practice/	carte	2
Deaconu A, Programare avansată în C şi C++, Editura Transilvania, 2003 https://drive.unitbv.ro/s/HG5s6W8KZAjrjPm	carte	2
Deaconu A, Deaconu O, capitol "Heuristic and Numerical Geometrical Methods for Estimating the Elevation and Slope at Points Using Level Curves. Application for Embankments" în cartea "Cognitive Buildings", Editura MDPI, isbn: 78-3-0365-3952-2, 2022 https://www.mdpi.com/books/pdfview/book/5349	capitol	1
Deaconu AM, Udroiu R, Nanau CS, capitol "Algorithms for Delivery of Data by Drones in an Isolated Area Divided into Squares" în cartea "Unmanned Aerial Vehicle (UAV) Enabled Wireless Communications and Networking", Editura MDPI, isbn: 978-3-0365-4663-6 https://www.mdpi.com/books/pdfview/book/5760	capitol	1
iii) Publicarea unui curs universitar în format electronic		
Deaconu A, Programare procedurală, pentru Informatică, Învățământ la distanță (ID), anul I, sem. 1 https://drive.unitbv.ro/s/dbZFbmLrANmcQnH https://drive.unitbv.ro/s/rqqxkt7RYCnS59H		2
Deaconu A, Programare orientata pe obiecte 1, Învățământ la distanță (ID) Informatică, anul II, sem. 2 https://drive.unitbv.ro/s/mXgWX4KiBDReF6H https://drive.unitbv.ro/s/rqqxkt7RYCnS59H		2
Deaconu A, Geometrie computaţională, Învățământ la distanță (ID) Informatică, anul II, sem. 2 https://drive.unitbv.ro/s/p8LEYpt69Dk3Cfb https://drive.unitbv.ro/s/q8ZnwYFZDF9fDqH		2
Deaconu A, Algoritmică și programare II, Învățământ la distanță (ID) Informatică, anul II, sem. 1 https://drive.unitbv.ro/s/HHS5NSrMJ9ykCW9		2
Deaconu A, Grafică 3D, Învățământ la distanță (ID) Informatică, anul III, sem. 2 https://drive.unitbv.ro/s/p77intxHzXBHixf https://drive.unitbv.ro/s/7oecdKJeMPpASND		2
iv) Director/editor al unei reviste		
Editor revistă indexată Scopus: Bulletin of the Transilvania University of Braşov. Series III. Mathematics and Computer Science http://webbut.unitbv.ro/index.php/Series_III/Editorial_Board	C	6
Editor revistă: European Journal of Mathematics and Applications Publica?ie:European Journal of Mathematics and Applications, issn:27527603 https://ejma.euap.org/editorial-board	D	3
v) Director (coordonator/responsabil) | membru al unui grant/proiect/contract/program de cercetare naţional / internaţional		
Membru proiect național de cercetare câștigat prin competiție, IDEI 134/2007 “Surse Regenerabile si Retele Inteligente Distribuite de Energie”, 2007-2010	100.000 – 199.999 Euro	3

https://drive.unitbv.ro/s/HYwQL2YsktkiZw7		
Membru proiect de cercetare câștigat prin competiție, Parteneriate 22134/2008, „Information support system for design, implementation and control of hybrid energy plants" (E-FARM), 2008-2011 https://drive.unitbv.ro/s/CFRFj3jQfKjzf98	100.000 – 199.999 Euro	3
Coordonator proiect european de cercetare câștigat prin competiție cu 3 rânduri de revieweri, cu 3 membri în echipa de cercetare (inclusiv coordonatorul), Sfera III, Horizon 2020, "MPPT for PVs based on metaheuristic algorithm under concentrated light" (SDAforMPPT), 25000 Euro, 2022-2023 https://drive.unitbv.ro/s/m6ssnZn5f6Pnn9H https://sfera3.sollab.eu/wp-content/uploads/2022/05/SFERA-III-List-of-SURP-Granted-2022.pdf https://sfera3.sollab.eu/	< 50.000 Euro	2
vi) Membru în comitetul stiintific (de program) al unor conferințe, simpozioane, workshop-uri		
Annual Conference on Innovation and Technology in Computer Science Education (ITICSE), 2021 https://drive.unitbv.ro/s/rEBfoS44KGZmCXf	A	4
Annual Conference on Innovation and Technology in Computer Science Education (ITICSE), 2022 https://drive.unitbv.ro/s/QsxXa4ZmmEM7Nfb	A	4
ACM Special Interest Group on Computer Science Education Conference (SIGCSE) 2021 https://drive.unitbv.ro/s/jLDTb4fKGWz2jeW	A	4
ACM Special Interest Group on Computer Science Education Conference (SIGCSE) 2022 https://drive.unitbv.ro/s/QsxXa4ZmmEM7Nfb	A	4
Annual Conference on Innovation and Technology in Computer Science Education (ITICSE), 2023 https://drive.unitbv.ro/s/7iR8F7B92tCgizJ	A	4
International Business Information Management Conference (IBIMA) 36, 2020 https://drive.unitbv.ro/s/rBeZeFC4qanBokg	D	0,5
International Business Information Management Conference (IBIMA) 37, 2021 https://drive.unitbv.ro/s/5fGJQ9AN9j4EBQW	D	0,5
International Business Information Management Conference (IBIMA) 38, 2021 https://drive.unitbv.ro/s/DTXxMtqJokPEX6H	D	0,5
vii) Organizare evenimente științifice/școli de vară, în calitate de: - director | membru în comitetul de organizare		
Membru în comitetul de organizare: International Conference on Mathematics and Computer Science (MACOS) 2022, https://mateinfo.unitbv.ro/ro/admitere/admitere-masterat/524-macos2022-organizing.html		1
Membru în comitetul de organizare: International Conference on Mathematics and Computer Science (MACOS) 2024, https://macos.unitbv.ro/		1
(Lead) Guest Editor revista Mathematics, special issue: „Advanced Optimization Methods and Applications", 2021-2023 https://www.mdpi.com/journal/mathematics/special_issues/Advanced_Optimization_Methods_and_Applications		2
(Lead) Guest Editor revista Mathematics, special issue: „Advanced Optimization Methods and Applications, 2nd Edition", 2023-2024 https://www.mdpi.com/journal/mathematics/special_issues/7JH2NP0BCI		2
(Lead) Guest Editor revista Drones, special issue: „Advances in Cartography, Mission Planning, Path Search, and Path Following for Drones", 2024-2025 https://www.mdpi.com/journal/drones/special_issues/4D6LJO3A0R		2

Guest Editor revista International Journal of Photoenergy, special issue: „Impacting the Performance of Photovoltaic Systems", 2020-2021 https://www.hindawi.com/journals/ijp/si/860594/		1
viii) Keynote/invited speaker/professor la evenimente/universități		
Invited speaker la „Training module" delivered by the Centre for Research Training in Artificial Intelligence, University College Cork, Irlanda, 2021 https://drive.unitbv.ro/s/2TXYwRD4SfDFxPF	top 500	2
Invited speaker la conferința Machine Learning and Data Science World Forum (ArtIntel), Barcelona, Spania, martie 2022 https://drive.unitbv.ro/s/77b6RxtyKwyMtiY		1
ix) Profesor/researcher asociat/visiting la o universitate		
Visiting professor 1 noiembrie 2019 – 30 octombrie 2020 (12 luni), University College Cork, Irlanda https://drive.unitbv.ro/s/pRzQBYpJpdBa9wn	top 500	24
x) Consolidarea de echipe de cercetare(numai în postura de lider), la nivel: internațional (acreditări) | național(acreditări) | în instituție(recunoscute oficial)		
Coordonator grup de cercetare (6 membri), Facultatea de Matematică și Informatică, „Algoritmi folosiți în optimizare", 2018-prezent (7 ani) https://mateinfo.unitbv.ro/ro/cercetare/grupuri-de-cercetare.html		6
xi) Membru în comisii de evaluare a tezelor de doctorat la o universitate		
Universitatea Transilvania, teza „Fluxuri parametrice și fluxuri în rețele", Mircea Parpalea, coordonator prof. dr. Eleonor Ciurea, 2012 https://drive.unitbv.ro/s/WBNwKAj3WokEkaf	top > 500	0,5
Universitatea Transilvania, teza „Fluxuri parametrice în rețele dinamice", Nicoleta Avesalon (Grigoraș), coordonator prof. dr. Eleonor Ciurea, 2022 https://drive.unitbv.ro/s/BSawGtd4Lb5ET56	top > 500	0,5
Universitatea Transilvania, teza „Machine Learning Models in Cancer Prediction", Arpad Kerestely, coordonator prof. dr. Marius-Sabin Tabîrcă, 2022 https://drive.unitbv.ro/s/FmLdyzr4e7Jcqwf	top > 500	0,5
xii) Membru în comisia de îndrumare a doctorandului		
Universitatea Transilvania, teza „Clase de fluxuri dinamice", doctorand: Camelia Șchiopu, 2019 https://drive.unitbv.ro/s/b8yS7CxcY5FPaAB		1
Universitatea Transilvania, teza „Cercetări în teoria așteptării și în rețele cu toleranță la întârzieri", doctorand: Corina Chiriac, 2020 https://drive.unitbv.ro/s/EcRzcMttHLr3oGM		1

Total perspectiva d): 104 de puncte (> 60)

Prag îndeplinit pentru perspectiva d): coordonator proiect european de cercetare câștigat prin competiție cu trei rânduri de revieweri, cu 3 membri în echipa de cercetare (inclusiv coordonatorul), Sfera III, Horizon 2020, "MPPT for PVs based on metaheuristic algorithm under concentrated light" (SDAforMPPT), 25000 Euro, 2022-2023

https://drive.unitbv.ro/s/m6ssnZn5f6Pnn9H

https://sfera3.sollab.eu/wp-content/uploads/2022/05/SFERA-III-List-of-SURP-Granted-2022.pdf

https://sfera3.sollab.eu/

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