

Productia stiintifica (perspectiva B)

Nr.	An	Cat.	Detalii lucrare	Nr autori	Punctaj
1	2005	A	M. Ionita, H. Luchian: Two Problem Independent Methods for Generating Initial Solutions. In Proc. of the 2005 IEEE Congress on Evolutionary Computation, vol. 2, pages 1442-1447, 2005	2	8
2	2006	C	Madalina Ionita, Mihaela Breaban, Cornelius Croitoru. A new scheme of using inference inside evolutionary computation techniques to solve CSPs, International Symposium on Symbolic and Numeric Algorithms for Scientific Computing SYNASC'06, IEEE, pp. 323-329, 2006	3	2
3	2006	C	Madalina Ionita, Cornelius Croitoru, Mihaela Breaban. Incorporating inference into evolutionary algorithms for max-csp, Hybrid Metaheuristics, Springer, pp 139-149, 2006	3	2
4	2007	A	Mihaela Breaban, Madalina Ionita, Cornelius Croitoru. A new PSO approach to constraint satisfaction, IEEE Congress on Evolutionary Computation CEC 2007, IEEE, pp 1948-1954, 2007	3	8
5	2010	D	M. Ionita, M. Breaban, C. Croitoru. Evolutionary Computation in Constraint Satisfaction, book chapter in New Achievements in Evolutionary Computation, editor Peter Korosec, INTECH Vienna, ISBN 978-953-307-053-7, 2010	3	1
6	2010	A	Madalina Raschip, Cornelius Croitoru. A new primal-dual genetic algorithm: case study for the winner determination problem, Evolutionary Computation in Combinatorial Optimization, Springer, pp 252-263, 2010	2	2
7	2010	A	M. Raschip, H. Luchian. Using messy genetic algorithms for solving the winner determination problem. Genetic and Evolutionary Computation Conference, GECCO'10, Evolutionary computation techniques for constraint handling workshop, pages 1825-1832, 2010	2	8
8	2011	C	Madalina Raschip, Cornelius Croitoru. A genetic algorithm hybridized with the discrete lagrangian method for trap escaping, Learning and Intelligent Optimization, Springer, pp 351-363, 2011	2	2
9	2015	C	R. Necula, M. Breaban, M. Raschip. Performance Evaluation of Ant Colony Systems for the Single-Depot Multiple Traveling Salesman Problem. Hybrid Artificial Intelligent Systems, HAIS 2015, volume 9121 in LNCS, pages 257-268, 2015	2	2
10	2015	B	R. Necula, M. Breaban, M. Raschip: Tackling the Bi-criteria Facet of Multiple Traveling Salesman Problem with Ant Colony Systems. 27th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2015, 873-880, 2015	2	4
11	2015	A	Madalina Raschip, Cornelius Croitoru, Kilian Stoffel. Guiding Evolutionary Search with Association Rules for Solving Weighted CSPs. GECCO 2015: 481-488	3	8
12	2015	A	Madalina Raschip, Cornelius Croitoru, Kilian Stoffel. Using association rules to guide evolutionary search in solving constraint satisfaction. CEC 2015: 744-750	3	4
13	2017	B	R. Necula, M. Breaban, M. Raschip. Tackling Dynamic Vehicle Routing Problem with Time Windows by means of Ant Colony System, IEEE Congress on Evolutionary Computation (CEC), 2480-2487, 2017	3	4

14	2018	C	Raluca Necula, Madalina Raschip, Mihaela Breaban. Balancing the Subtours for Multiple TSP Approached with ACS: Clustering-based Approaches vs. MinMax Formulation. EVOLVE-A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computation VI, Springer, 210-223, 2018	3	2
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Total punctaj	57
Punctaj obtinut din lucrari A	38
Punctaj obtinut din lucrari B	8
Punctaj obtinut din lucrari A si B	46

Impactul rezultatelor (perspectiva C)

An	Detalii lucrare citată	Nr autori	Detalii lucrare care citează	Cat.	Punctaj
2017	M. Raschip, C. Croitoru, K. Stoffel. Using association rules to guide evolutionary search in solving constraint satisfaction, CEC 2015	3	Y. Zhou, J-K. Hao, B. Duval. Opposition-Based Memetic Search for the Maximum Diversity Problem, IEEE Transactions on Evolutionary Computation, Vol. 21, issue 5, 731 - 745, 2017	A*	12
2017			Y. Zhou, JK. Hao, B. Duval. When data mining meets optimization: A case study on the quadratic assignment problem, arXiv, 2017	D	1
2017	M. Raschip, C. Croitoru, K. Stoffel. Guiding Evolutionary Search with Association Rules for Solving Weighted CSPs, GECCO 2015	3	Y. Zhou, JK. Hao, B. Duval. When data mining meets optimization: A case study on the quadratic assignment problem, arXiv, 2017	D	1
2011	Mihaela Breaban, Madalina Ionita, Cornelius Croitoru. A new PSO approach to constraint satisfaction, IEEE Congress on Evolutionary Computation CEC 2007, IEEE, 1948-1954, 2007	3	M. Setayesh, M. Zhang, M. Johnston. Detection of continuous, smooth and thin edges in noisy images using constrained particle swarm optimisation, Proceedings of the 13th annual conference on Genetic and evolutionary computation GECCO'11, pp.45-52, ACM, 2011	A	8
2013			M. Setayesh, M. Zhang, M. Johnston. A novel particle swarm optimisation approach to detecting continuous, thin and smooth edges in noisy images, Information Sciences, vol. 246, pp. 28-51, Elsevier, 2013	A	8
2017			K Ye, C Zhang, J Ning, X Liu. Ant-colony algorithm with a strengthened negative-feedback mechanism for constraint-satisfaction problems, Information Sciences, Elsevier, 2017	A	8

2017			N. Dali, S. Bouamama. Different parallelism levels using GPU for solving Max-CSPs with PSO, IEEE Congress on Evolutionary Computation (CEC), 2017	B	4
2008			Swarm robots formation control based on double PSO swarms with an adaptive fitness control parameter, Qinghua Daxue Xuebao/Journal of Tsinghua University, 2008	C	2
2011			C. Wang, M. H. Nehrir, L. Y. Wang, F. Lin, C. M. Colson. Hybrid Constraint-Handling Mechanism for Particle Swarm Optimization with Applications in Power Systems, International Conference on Genetic and Evolutionary Methods, WORLDCOMP, 2011	C	2
2017			Q. Zhang, C. Zhang. An improved ant colony optimization algorithm with strengthened pheromone updating mechanism for constraint satisfaction problem, Neural Computing and Applications, 1-12, 2017	C	2
2010			Carlos A. Coello Coello, Col San Pedro Zacatenco. List of references on constraint-handling techniques used with evolutionary algorithms, Power 80 (10), 1286-1292, 2010	D	1
2013			M. Setayesh. Particle Swarm Optimisation for Edge Detection in Noisy Images, Victoria University of Wellington, 2013	D	1
2014			C. Wanga, C. J. Millerb, M. H. Nehrirc, J. W. Sheppard, S. P. McElmurry. A load profile management integrated power dispatch using a Newton-like particle swarm optimization method, Sustainable Computing: Informatics and Systems, Elsevier, 2014	D	1

2017	M. Ionita, C. Croitoru, M. Breaban. Incorporating inference into evolutionary algorithms for max-csp, HM 2016	3	K Ye, C Zhang, J Ning, X Liu. Ant-colony algorithm with a strengthened negative-feedback mechanism for constraint-satisfaction problems, Information Sciences, Elsevier, 2017	A	8
2015			H Luchian, ME Breaban, A Bautu. On meta-heuristics in optimization and data analysis. Application to geosciences, Artificial Intelligent Approaches in Petroleum Geosciences, 53-100, 2015	C	2
2011			Clustering: evolutionary approaches	D	1
2017	M. Ionita, M. Breaban, C. Croitoru. A new scheme of using inference inside evolutionary computation techniques to solve CSPs, SYNASC 2016	3	K Ye, C Zhang, J Ning, X Liu. Ant-colony algorithm with a strengthened negative-feedback mechanism for constraint-satisfaction problems, Information Sciences, Elsevier, 2017	A	8
2015	Evolutionary Computation in Constraint Satisfaction, INTECH 2010	3	Decision Support System for Examination Timetabling, 2nd International Conference and Exhibition (OWSD-FUTA), 2015, 439-444	D	1
2011			Evolutionary Algorithms in Crystal Structure Analysis, Intech 2011	D	1
2017	R. Necula, M. Breaban, M. Raschip. Tackling the Bi-criteria Facet of Multiple Traveling Salesman Problem with Ant Colony Systems, ICTAI 2015	3	H. Zhou, M. Song, W. Pedrycz. A Comparative Study of Improved GA and PSO in Solving Multiple Traveling Salesmen Problem, Applied Soft Computing, Elsevier, 2017	A	8
2017	R. Necula, M. Breaban, M. Raschip. Performance evaluation of ant colony systems for the single-depot multiple traveling salesman, HAIS 2015	3	Y. Wang, Y. Chen, Y. Yu. Improved Grouping Genetic Algorithm for Solving Multiple Traveling Salesman Problem, Journal of Electronics & Information Technology 39(1), 2017	D	1

Total	81
Punctaj obtinut din lucrari A	48
Punctaj obtinut din lucrari B	4
Punctaj obtinut din lucrari A si B	52

Performanta academica (perspectiva D)

Cărți autor/editate și capitole

				Total	3
An	Detalii	Nr autori	Carte / capitol	Punctaj	
2007	D.Cristea, M. Ionita, I. Pistol. Inteligenta Artificiala, Editura Universitatii" Al. I. Cuza" Iasi	3	carte	2	
2010	Madalina Ionita, Cornelius Croitoru, Mihaela Breaban.Evolutionary Computation in Constraint Satisfaction, INTECH Open Access Publisher, 2010	3	capitol	1	

Curs in format electronic

Curs in format electronic				Total	6
An	Denumire curs	Link la materiale curs in format electronic	Punctaj		
2011	Algoritmi si programare	https://profs.info.uaic.ro/~ap/		2	
2013-prezent	Structuri de date	http://profs.info.uaic.ro/~sd/		2	
2016-prezent	Analiza experimentală a algoritmilor	http://profs.info.uaic.ro/~mionita/aea/		2	

Granturi

				Total	12
An start	Valoarea grantului (EUR)	Director / membru	Detalii grant	Punctaj	
2005	1000	membru	Nature-inspired methods for graph coloring, CNCSIS-A cod 592, contract nr. 33373, 2005-2007	1	
2005	48000	membru	AMASS: Associative Memory Arrays for Semantic Search, FP6, contract no. 018283, 2005-2007	1	
2006	84953	membru	GRAI: Academic Grid for Complex Applications, CEEX-M1-1801, 2006-2008	2	

2006	90000	director	Hybrid Approaches for Solving Constraint Satisfaction Problems, financed by the National Council of Scientific Research in Higher Education, grant type TD - 459, contract no. 86GR, 2006-2008	4
2008	42720	membru	NatComp - Noi modele de calcul natural in studiul complexitatii si in rezolvarea problemelor complexe, PNII, Program 4 – Partneriate in domenii prioritare - 2120, 2008-2010	1
2014	76507	membru	HAL-DMCSP - Hybrid algorithms for joint data mining and constraint satisfaction problems: a case study on wireless sensor networks, SCIE X project no. 13.323	2
2017	10000	membru	FOReGAST: Sistem integrat de analiza si prognoza a consumului pentru distribuitorii IMM de gaze naturale, cod PN-III-P2-2.1-CI-2017-0654	1

Membru în comitetul științific al unei Conferințe (PC member)

Total

9.5

An	Conferinta	Categorie	Detalii	Punctaj
2012-2013, 2015-2017	International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)	C	International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)	5
2011-2017	International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)	D	The Workshop on Natural Computing and Applications, SYNASC	3.5
2015	EVOLVE 2015	C	The EVOLVE 2015 International Conference – A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computing, 2015	1

Organizare evenimente științifice / școli de vară

Total

5

An	Detalii eveniment			Punctaj
2012, 2016, 2017	Doctoral Intensive Summer School on Evolutionary Computing in Optimisation and Data Mining, Iasi			3
2015	The EVOLVE 2015 International Conference – A Bridge between Probability, Set Oriented Numerics, and Evolutionary Computing, 2015			1
2015	Biostatistical Analysis in Epidemiological Research, RNG-ISCIB 2015			1

Profesor/researcher asociat/visiting la o universitate din

Total

3

An	Detalii			Punctaj
2016	Ben-Gurion University of the Negev, Erasmus+ staff mobility	Top 101-150 (CS)		2
2017	University of Massachusetts, Boston, Erasmus+ staff mobility	Top 500		1

Membru în comisia de îndrumare a doctoranzilor

Total

3

An	Doctorand	Universitate		Punctaj
2012	Rotaru Cristian	Universitatea Alexandru Ioan Cuza din Iasi		1
2012	Sucila Andrei	Universitatea Alexandru Ioan Cuza din Iasi		1
2014-2018	Necula Raluca	Universitatea Alexandru Ioan Cuza din Iasi		1

Dezvoltarea de pachete si instrumente software, dezvoltarea de resurse si colectii de date de larga utilitate

Total

2

	Detalii	Adresa		Punctaj
	Benchmark data for the Single-Depot Multiple Traveling Salesman Problem (multiple-TSP)	https://profs.info.uaic.ro/~mtsplib/		2

Total

43.5