

Lista de lucrări

Centralizator: Candidat - Sabo Cosmin Nicolae

1. Activitatea didactică

1.b. Lucrări de laborator redactate și realizate practic:

Nr. crt.	Denumire	Document doveditor
1	Baze de date – suport curs	http://kb.cunbm.utcluj.ro/course/view.php?id=4
2	Python – suport laborator	http://kb.cunbm.utcluj.ro/course/view.php?id=5
3	Practica de specialitate - Proiect Individual	http://kb.cunbm.utcluj.ro/course/view.php?id=51

1.c. Teza doctorat:

1	Universitatea Tehnică din Cluj-Napoca - Ingineria Sistemelor – Titlul: Optimizarea Proceselor de Afaceri
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2. Activitatea științifică

2.a. Activitatea științifica	Categoria	Punctaj
1. P.C. Pop, O. Matei, C. Sabo and A. Petrovan, A two-level solution approach for solving the generalized minimum spanning tree problem, European Journal of Operational Research, Elsevier, Vol. 265(2), pp. 478-487, 2018.	A*	2
2. P.C. Pop, L. Fuksz, A. Horvat Marc and C. Sabo, A novel two-level optimization approach for clustered vehicle routing problem, Computers & Industrial Engineering, Vol. 115, pp. 304-318, 2018.	A	2
TOTAL punctaj din jurnale și conferințe din categoria A* și A		4
3. P.C. Pop, C. Sabo, B. Biesinger, B. Hu and G. Raidl, Solving the Two-Stage Fixed-Charge Transportation Problem with a Hybrid Genetic Algorithm, Carpathian Journal of Mathematics, Vol. 33, No. 3, pp. 365-371, 2017.	B	2
4. C.-M. Pintea, A. Calinescu, P.C. Pop and C. Sabo, Towards a Secure Two-stage Supply Chain Network: A Transportation-Cost Approach, in Proc. of CISIS 2016, Vol. 527, pp. 547-554, 2016.	B	2
TOTAL jurnale și conferințe din categoria B		4

5. P.C. Pop, O. Matei and C. Sabo, A hybrid diploid genetic based algorithm for solving the generalized traveling salesman problem, in Proc. of HAIS 2017, Lecture Notes in Computer Science, Vol. 10334, pp. 149-160, 2017.	C	2
6. C. Sabo, P.C. Pop, H. Valean and D. Danciulessu, An innovative approach to manage heterogeneous information using relational database systems, in: Madureira A., Abraham A., Gamboa D., Novais P. (eds) Intelligent Systems Design and Applications. ISDA 2016, Advances in Intelligent Systems and Computing, Springer, Vol. 557, pp. 1-10, 2017.	C	2
7. V. Frâncu, C. Sabo, Implementation of a UDC-based multilingual thesaurus in a library catalogue: the case of BiblioPhil, KO KNOWLEDGE ORGANIZATION 37 (3), pp. 209-215, 2010.	C	2
8. P.C. Pop, O. Matei and C. Sabo, A New Approach for Solving the Generalized Traveling Salesman Problem, in Proc. of HM 2010, Editors M.J. Blesa et al., Lecture Notes in Computer Science, Springer, Vol. 6373, pp. 62-72, 2010.	C	2
TOTAL jurnale și conferințe din categoria C		8
9. P.C. Pop, C. Sabo, C. Pop Sitar and M. Craciun, A Simulated Annealing Based Approach for Solving the Generalized Minimum Spanning Tree Problem, Creative Mathematics and Informatics, Vol. 16, pp. 42-53, 2007.	D	1
10. P.C. Pop, O. Matei and C. Sabo, A Memetic Algorithm for Solving the Generalized Minimum Spanning Tree Problem, Advances in Intelligent and Soft Computing, Springer, Vol. 96, pp. 187-194, 2011.	D	1
TOTAL jurnale și conferințe din categoria D		2
TOTAL		18

2.a. Impactul rezultatelor

Numarul publicatiilor care citeaza	Referinta bibliografica a publicatiei k care citeaza	S _k	$\Sigma_k S_k$	n _i	$\Sigma_k S_k / \max(1, n_i - 2)$
P.C. Pop, O. Matei, C. Sabo and A. Petrovan, A two-level solution approach for solving the generalized minimum spanning tree problem, European Journal of Operational Research, Vol. 265(2), pp. 478-487, 2018.		30	4	15	
1.	M.B. Akçay, H. Akcan and C. Evrendilek, All Colors Shortest Path problem on trees, Journal of Heuristics, March 2018 DOI10.1007/s10732-018-9370-4.	8			
2.	E.G. de Sousa, R.C. de Andrade and A.C. Santos, A Multigraph Formulation for the Generalized Minimum Spanning Tree	2			

	Problem, ISCO 2018, Lecture Notes in Computer Science, Vol. 10856, pp. 133-143, 2018.				
3.	P.A. Miranda, C.A. Blazquez, Carlos Obreque, J. Maturana-Ross, G. Gutierrez-Jarpa, The bi-objective insular traveling salesman problem with maritime and ground transportation costs, European Journal of Operational Research (2018), doi: 10.1016/j.ejor.2018.05.009	12			
4	P.C. Pop, O. Matei and C.M. Pintea, A two-level diploid genetic based algorithm for solving the family traveling salesman problem, in Proc. of GECCO 2018, Association for Computing Machinery, Kyoto, Japan, 2018.	8			
P.C. Pop, L. Fuksz, A. Horvat Marc and C. Sabo, A novel two-level optimization approach for clustered vehicle routing problem, Computers & Industrial Engineering, Vol. 115, pp. 304-318, 2018.		16	4	8	
1.	F.G. Tari and Z. Hashemi, Prioritized K-mean clustering hybrid GA for discounted fixed charge transportation problems, Computers & Industrial Engineering, Vol. 126, pp. 63-74, 2018, https://doi.org/10.1016/j.cie.2018.09.019 .	8			
2.	P.C. Pop, O. Matei and C.M. Pintea, A two-level diploid genetic based algorithm for solving the family traveling salesman problem, in Proc. of GECCO 2018, Association for Computing Machinery, Kyoto, Japan, 2018.	8			
P.C. Pop, C. Sabo, B. Biesinger, B. Hu and G. Raidl, Solving the two-stage fixed-charge transportation problem with a hybrid genetic algorithm, Carpathian Journal of Mathematics, Vol. 33, No. 3, pp. 365-371, 2017.		12	5	4	
1.	Hong, J., Diabat, A., Panicker, V.V., Rajagopalan, S., A two-stage supply chain problem with fixed costs: An ant colony optimization approach, International Journal of Production Economics (2018), doi: 10.1016/j.ijpe.2018.07.019, Vol. 204, pp. 214-226, 2018.	12			
P.C. Pop, O. Matei and C. Sabo, A hybrid diploid genetic based algorithm for solving the generalized traveling salesman problem, in Proc. of HAIS 2017, Lecture Notes in Computer Science, Vol. 10334, pp. 149-160, 2017.		28	3	28	
1.	R. Bernardino and A. Paias, Solving the family traveling salesman problem, European Journal of Operational Research, in Press, https://doi.org/10.1016/j.ejor.2017.11.063	12			
2.	M.B. Akçay, H. Akcan and C. Evrendilek, All Colors Shortest Path problem on trees, Journal of Heuristics, March 2018 DOI10.1007/s10732-018-9370-4.	8			
3.	P.C. Pop, O. Matei and C.M. Pintea, A two-level diploid genetic based algorithm for solving the family traveling salesman problem, in Proc. of GECCO 2018, Association for Computing Machinery, Kyoto, Japan, 2018.	8			
C. Sabo, P.C. Pop, H. Valean and D. Danciulessu, An innovative approach to manage heterogeneous information using relational database systems, in: Madureira A., Abraham A., Gamboa D., Novais P. (eds) Intelligent Systems Design and Applications. ISDA 2016, Advances in Intelligent Systems and Computing, Springer, Vol. 557, pp. 1-10, 2017.		5	4	2.5	

1.	R.S. de Madariaga, A. Muñoz, A.L. Castro, O.M. Gil, M.P Carrasco, Executing Complexity-Increasing Queries in Relational (MySQL) and NoSQL (MongoDB and Exist) Size-Growing ISO/EN 13606 Standardized Databases, Journal of Visualized Experiments, DOI: 10.3791/57439, art. no. e57439, 2018.	4	
2.	D. CONSTANTIN, E. CLIPICI, A.F. STEFAN, A Comparative Study for ICA Multiunit Algorithms, pp. 1-9, 3 rd Int. Conf. on Artificial Intelligence and Applications, Chennai, India, 2017.	1	
C.-M. Pintea, A. Calinescu, P.C. Pop and C. Sabo, Towards a Secure Two-stage Supply Chain Network: A Transportation-Cost Approach, in Proc. of CISIS 2016, Vol. 527, pp. 547-554, 2016.		6	4
3.	C.-M Pintea, A. Calinescu, C. Pop Sitar, P.C. Pop; Towards secure & green two-stage supply chain networks, Logic Journal of the IGPL, https://doi.org/10.1093/jigpal/izy028 , in Press, 2018.	2	
4.	Pintea CM., Crișan G.C., Pop P., Towards Secure Transportation Based on Intelligent Transport Systems. Novel Approach and Concepts. In: Graña M. et al. (eds) Int. Joint Conference SOCO'18-CISIS'18-ICEUTE'18, Advances in Intelligent Systems and Computing, Vol. 771, pp. 469-477, 2019.	4	
P.C. Pop, O. Matei and C. Sabo, A Memetic Algorithm for Solving the Generalized Minimum Spanning Tree Problem, Advances in Intelligent and Soft Computing, Springer, Vol. 96, pp. 187-194, 2011.		8	3
5.	G. Bergantinos, M. Gomez-Rua, N. Llorca, M. Pulido and J. Sanchez-Soriano, A new rule for source connection problem, <i>European Journal of Operational Research</i> , Vol. 234, Issue 3, pp. 780–788, 2014. ISSN: 03772217	8	
P.C. Pop, O. Matei and C. Sabo, A New Approach for Solving the Generalized Traveling Salesman Problem, in Proc. of HM 2010, Editors M.J. Blesa et al., Lecture Notes in Computer Science, Springer, Vol. 6373, pp. 62-72, 2010.		45	3
15.	C. Archetti, F. Carrabs and R. Cerulli, The set orienting problem, <i>European Journal of Operational Research</i> , Vol. 267(1), pp. 264-272, 2018 https://doi.org/10.1016/j.ejor.2017.11.009 .	12	
14.	P.C. Pop, O. Matei and C.M. Pintea, A two-level diploid genetic based algorithm for solving the family traveling salesman problem, in Proc. of GECCO 2018, Association for Computing Machinery, Kyoto, Japan, 2018.	8	
13.	H. Jafarzadeh, N. Moradinasab and M. Elyasi, An Enhanced Genetic Algorithm for the Generalized Traveling Salesman Problem, <i>Engineering, Technology & Applied Science Research</i> Vol. 7, No. 6, 2260-2265, 2017.	1	
12.	M. Chen, X. Li and K. Tang, Optimal air-move path generation based on MMAS algorithm, <i>International Journal of Production Research</i> , Taylor & Sons, Vol. 52, Issue 24, pp. 7310-7323, 2014.	4	
11.	J.Y. Kanda and A. de Carvalho, Using Meta-learning to Recommend Meta-heuristics for the Traveling Salesman Problem, IEEE 10 th International Conference on Machine Learning and Applications, Vol. 1, pp. 346-351, 2011.	2	

10.	X Li and M Chen, A novel algorithm for solving cutting tool path generation, International Conference on Information Science, Electronics and Electrical Engineering (ISEEE), Vol. 1, pp. 43-45, 2014.	2	
9.	C.M. Pintea, Advances in Bio-inspired Computing for Combinatorial Optimization Problems, Intelligent Systems Reference Library, Vol. 57, pp. 1-186, 2014.	2	
8.	M. Lian-Ming, The Continuous Selective Generalized Traveling Salesman Problem: An Efficient Ant Colony System, in Proc. of 8-th IEEE Int. Conf. on Natural Computation, ICNC 2012, pp. 1242-1246, 2012.	2	
7.	L.-M. Mou, An efficient ant colony system for solving the new generalized traveling salesman problem, in Proc. of IEEE Int. Conf. on Cloud Computing and Intelligence Systems, CCIS 2011, pp. 407-412, 2011.	2	
6.	M. Lian-Ming, A novel ant colony system with double pheromones for the generalized TSP, in Proc. of the 7-th IEEE Int. Conf. on Natural Computing, ICNC 2011, Vol. 4, Art. No. 6022580, pp. 1923-1928, 2011.	2	
5.	I. von Sivers, M. J. Seitz and G. Köster, How Do People Search: A Modelling Perspective, Parallel Processing and Applied Mathematics, Lecture Notes in Computer Science, Vol. 9574, pp. 487-496, 2016.	2	
4.	N.D. Lagaros and M.G. Karlaftis, A critical assessment of metaheuristics for scheduling emergency infrastructure inspections, Swarm and Evolutionary Computation, Vol. 1, Issue 3, pp. 147–163, 2011.	2	
3.	O. Matei, C. Matei, I. Vlad and C. Costea, A system for monitoring of the human body parameters, Carpathian Journal of Electrical Engineering, Vol. 9, Issue 1, pp. 45-55, 2015.	1	
2.	M. Khachay and K. Neznakhina, Approximation algorithms for generalized TSP in grid clusters, in Proceedings of CEUR Workshop 1623, pp. 39-48, 2017.	1	
1.	C.M. Pintea, O. Matei, R.A. Ramadan, M. Pavone, M. Niazi and A.T. Azar, A Fuzzy Approach of Sensitivity for Multiple Colonies on Ant Colony Optimization, Advances in Intelligent Systems and Computing, Vol. 634, pp. 87-95, 2018.	2	
P.C. Pop, C. Sabo, C. Pop Sitar and M. Craciun, A Simulated Annealing Based Approach for Solving the Generalized Minimum Spanning Tree Problem, Creative Mathematics and Informatics, Vol. 16, pp. 42-53, 2007.		10	4 5
1.	P.C. Pop, A survey of different integer programming formulations of the generalized minimum spanning tree problem, Carpathian Journal of Mathematics, Vol. 25, No. 1, pp. 104-118, 2009.	8	
2.	P.C. Pop and C. Pop Sitar, A new efficient transformation of the generalized vehicle routing problem into the classical vehicle routing problem, Yugoslav Journal of Operations Research, Vol. 21, No. 2, pp. 187-198, 2011.	2	

TOTAL citări în forumuri de tip A și B	86
TOTAL citări – punctaj conf. Comisie Informatică	118.5

2.b. autor / coautor / alte lucrări (proiecte, studii, etc.)

Nr. crt	Denumire	Document Doveditor
1	Manual utilizare eBibliophil	Carte publicată: Editura BiblioPhil, 2013, ISBN 978-606-93034-7-6
	Propunerile de brevete și inventii active (OSIM, ORDA, etc.)	
2	C.N. Sabo, P.C. Pop and N. Tomai, SYSTEM AND PROCESS FOR DYNAMIC GENERATION OF COMPUTER APPLICATION INTERFACES	patent number RO128876-A0, 2012.
3	C.N. Sabo, N. Tomai and P.C. Pop, SYSTEM AND PROCESS FOR THE AUTOMATIC ANALYSIS OF THE COMMUNICATION LANGUAGE BETWEEN TWO INFORMATIC SYSTEMS	patent number RO128954-A0, 2013

2.c. Performanța academică

Nr. Crt.	Participări în colective de cercetare
PROIECTE/GRANTURI INTERNATIONALE	
1	Hybrid bi-level optimization approaches for generalized network design problems, bilateral project between Romania and Austria, UEFISCDI, 2014-2015, 22000 RON – membru
PROIECTE/GRANTURI NATIONALE	
2	Cercetarea, dezvoltarea și implementarea gestionării informatică a documentelor, ANCS, axa POS CCE, 3444000 RON, 2010-2013 – director.
3	Noi metode hibride metaeuristice pentru rezolvarea problemelor de proiectare a retelelor, PN-II-RU-TE-2011-3-0113, 750000 RON, 2011-2014 – membru
4	Metode algoritmice de rezolvare a problemelor de optimizare combinatorică, programul Centre de cercetare de excelență CEEX, ET34/2006, 140000 RON, 2006-2008 – membru
Total: 4 proiecte de cercetare	
3. Activitate în folosul comunității academice	
	Activitate la nivel de departament / facultate / universitate:
	1. Cordonatorul comitetului de organizare a conferinței XGEN NEXT 100, 22-25 mai 2018.

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| | <p>2. Membru în comitetul de organizare al conferinței: A XX-a Conferință Anuală a Societății de Științe Matematice din Romania, Baia Mare, 19-22 mai 2016.</p> <p>3. Membru în comitetul de organizare al conferinței: International Conference on Applied Mathematics, ICAM 9, Baia Mare, 25-28 Septembrie 2013.</p> <p>4. Membru în comitetul de organizare al conferinței: International Conference on Applied Mathematics, ICAM 8, Baia Mare, 27-30 Octombrie 2011.</p> <p>5. Membru în comitetul de organizare al conferinței: International Conference on Applied Mathematics, ICAM 7, Baia Mare, 1-4 Septembrie 2010.</p> <p>6. Membru în comitetul de organizare al conferinței: International Conference on Applied Mathematics, ICAM 6, Baia Mare, 18-21 Septembrie 2008.</p> |
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3. b. membru în structuri ale unor organizații naționale și internaționale

Nr. crt.	Organizația	Document doveditor
1	Societatea de Științe Matematice din România	Monografia SSMR 2018, Editura Risoprint, ISSN 2285-5467

Candidat

Aizat

SABO COSMIN