

## LISTA PUBLICAȚIILOR

Structurată ca în O.M. 5691/27.10.2011, Anexa 1, Articolul 15

### a) Lista lucrărilor prevăzute la art. 12 alin. 1 litera h) - incluse în format electronic în dosar

1. Petrică Pop, Oliviu Matei, Corina Pop Sitar and Ioana Zelina, *A hybrid based genetic algorithm for solving a capacitated fixed-charge transportation problem*, CARPATHIAN J. MATH. 32 (2016), No. 2, 225 – 232, Print Edition: ISSN 1584 - 2851 Online Edition: ISSN 1843 – 4401
2. Camelia-M. Pinteș, Petrică C. Pop and Ioana Zelina, *Denial jamming attacks on wireless sensor network using sensitive agents*, Logic Jnl IGPL (2015) doi: 10.1093/jigpal/jzv046
3. L. Fuksz , P.C. Pop and I. Zelina, *Heuristic algorithms for solving the bi-dimensional two-way number partitioning problem*, Studia Universitatis Babeș-Bolyai, Series Informatica, Vol. LVIII, No. 3, pp. 17-28, 2013
4. P.C. Pop, C. Pop Sitar, I. Zelina, V. Lupșe and C. Chira, *Heuristic algorithms for solving the generalized vehicle routing problem*, International Journal of Computers, Communications & Control (F.I. = 0,438), Vol. 6, No. 1, pp. 158-166, 2011
5. Zelina I., Tașcu I., *Simple paths of maximum length in star graphs*, Carpathian J. Math., 24(2008), no.2, p.120-125, ISSN 1584-2851
6. Zelina I., *Hamiltonian paths and cycles in Fibonacci cubes*, Carpathian J. Math., 24(2008), no.1-2, p.149-155, 2008, ISSN 1584-2851
7. Zelina Ioana, *A survey on cycles embeddings in Fibonacci and extended Fibonacci cubes*, Creative Math.&Inf, 17(2008), no.3, p.548 -554, ISSN 1584-286x
8. I. Zelina, G. Moldovan and P.C. Pop, *Some Communication Aspects in Extended Fibonacci Cubes*, IEEE Proceedings of International Symposium on Applications and the Internet, pp. 245-248, IEEE Computer Society Press, Turku, Finland, July 28 – August 1, 2008.
9. Zelina I., *On embedding Fibonacci meshes on Fibonacci cube networks*, Carpathian J. Math. 22 (2006), No. 1 - 2, 173 - 178, ISSN 1584-2851
10. Zelina I., *Parallel Lagrange Interpolation on Extended Fibonacci Cubes*, Studia Universitatis Babeș-Bolyai, anul L, 2005, pp.105-110, ISSN 1224-869x

### b) Teza de doctorat

„Optimizări în sisteme distribuite”

Conducător științific: Prof.dr.Grigor Moldovan

Universitatea „Babeș- Bolyai” din Cluj-Napoca

Susținere publică: 8 mai 2008

**c) Brevete de invenție și alte titluri de proprietate industrială**

Nu există.

**d) Cărți**

1. Zelina Ioana, *Topologii de tip hipercub în sisteme distribuite*, Ed. Risoprint Cluj Napoca, 2009, ISBN 978-973-53-0217-7, 188 pagini
2. Pop S. Maria, Tașcu I., Pop Sitar C., Zelina I., *Probabilități și statistică. Teorie și aplicații*, Ed. Risoprint, Cluj Napoca 2008, ISBN-978-973-751-753-1, 209 pagini
3. Tașcu I., Zelina I., *Elemente de calcul financiar și matematici manageriale*, ed. Risoprint Cluj-Napoca, 2006, ISBN 978-973-751-171-3, 134 pagini
4. Tașcu I., Zelina I., *Probleme de matematici manageriale*, Ed. Risoprint Cluj-Napoca, 2005, ISBN 973-656-639-0, 120 pagini
5. Zelina I., *Limbaje formale și automate*, Editura Risoprint Cluj-Napoca, 2004, ISBN 973-656-639-0, 144 pagini
6. Zelina I., *Arhitectura calculatoarelor*, Tipografia Univ. de Nord Baia Mare, 2002, 158 pagini
7. Zelina I., *Limbaje formale*, Tipografia Univ. de Nord Baia Mare, 2001, 70 pagini
8. Bărbosu Dan, Zelina Ioana, *Calculul probabilităților*, Editura Cub Press 22, Baia Mare, 1998, ISBN 973-98169-0-8, 306 pagini

**e) Articole/studii in extenso publicate în reviste din fluxul științific internațional principal**

1. Petrică Pop, Oliviu Matei, Corina Pop Sitar and Ioana Zelina, *A hybrid based genetic algorithm for solving a capacitated fixed-charge transportation problem*, CARPATHIAN J. MATH. 32 (2016), No. 2, 225 – 232, Print Edition: ISSN 1584 - 2851 Online Edition: ISSN 1843 – 4401
2. Camelia-M. Pinteș, Petrică C. Pop and Ioana Zelina, *Denial jamming attacks on wireless sensor network using sensitive agents*, Logic Jnl IGPL (2015) doi: 10.1093/jigpal/jzv046
3. L. Fuksz , P.C. Pop and I. Zelina, *Heuristic algorithms for solving the bi-dimensional two-way number partitioning problem*, Studia Universitatis Babes-Bolyai, Series Informatica, Vol. LVIII, No. 3, pp. 17-28, 2013
4. P.C. Pop, C. Pop Sitar, I. Zelina, V. Lupșe and C. Chira, *Heuristic algorithms for solving the generalized vehicle routing problem*, International Journal of Computers, Communications & Control (F.I. = 0,438), Vol. 6, No. 1, pp. 158-166, 2011
5. P.C. Pop, C. Pop Sitar, A. Horvat Marc and I. Zelina, *A local-global approach to the Generalized Minimum Spanning Tree Problem*, Analele Universitatii din Timisoara, seria Matematica-Informatica, Fasc. 2, Vol. XLVII, pp. 117-126, 2009
6. Zelina I., Tașcu I., *Simple paths of maximum length in star graphs*, Carpathian J. Math., 24(2008), no.2, p.120-125, ISSN 1584-2851

7. Zelina I., *Hamiltonian paths and cycles in Fibonacci cubes*, Carpathian J. Math., 24(2008), no.1-2, p.149-155, 2008, ISSN 1584-2851
8. Zelina I., Moldovan G., Taşcu I., *On embeddings of Hamiltonian paths and cycles in Extended Fibonacci Cubes*, American Journal of Applied Sciences, vol. 5(11), 1605-1610, 2008, ISSN 1546-9239
9. Zelina Ioana, *A survey on cycles embeddings in Fibonacci and extended Fibonacci cubes*, Creative Math.&Inf, 17(2008), no.3, p.548 -554, ISSN 1584-286x
10. Zelina I., *On embedding Fibonacci meshes on Fibonacci cube networks*, Carpathian J. Math. 22 (2006), No. 1 - 2, 173 - 178, ISSN 1584-2851
11. Zelina I., *Parallel Lagrange Interpolation on Extended Fibonacci Cubes*, Studia Universitatis Babeş-Bolyai, anul L, 2005, pp.105-110, ISSN 1224-869x
12. Pop N., Zelina I., *A quadratic programming method for saddle point formulations in contact problems with friction*, Carpathian Journal of Mathematics, Volume 20, Issue 1, 2004, Pages 95-100, ISSN 1584-2851
13. Taşcu I., Zelina I., *On the mean square error of the bidimensional operator of Stancu type*, Carpathian Journal of Mathematics, vol.19, No.2, 141-146, 2003, ISSN 1584-2851
14. Bărbosu D., Zelina I., *About some interpolation formulas over triangles*, Revue Analyse Numerique et Theorie Approximation 28(1999), no.2 117-123 (2000), ISSN: 1222-9024

**f) Publicații in extenso apărute în lucrări ale principalelor conferințe internaționale de specialitate**

1. P.C. Pop, C.M. Pinte, I. Zelina and D. Dumitrescu, *Solving the Generalized Vehicle Routing Problem with an ACS-based Algorithm*, American Institute of Physics, Vol. 1117, pp. 157-162, 2009, (Conf. Proc. BICS Tg. Mures 5-7 November 2008).
2. I. Zelina, P. Pop, C. Pop Sitar, A. Horvat Marc, *A local-global approach to the Generalized Minimum Spanning Tree Problem*, IEEE Proc. of the 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computer Society Press, 2008, pp. 91-94
3. I. Zelina, G. Moldovan and P.C. Pop, *Some Communication Aspects in Extended Fibonacci Cubes*, IEEE Proceedings of International Symposium on Applications and the Internet, pp. 245-248, IEEE Computer Society Press, Turku, Finland, July 28 - August 1, 2008.
4. P. Pop, C. Pop Sitar, I. Zelina and I. Tascu, *Exact algorithms for generalized combinatorial optimization problems*, in Proceedings of the COCOA Conference, Xi'an, China, Lecture Notes in Computer Science, Vol. 4616, pp. 154-162, 2007.
5. P.C. Pop and I. Zelina, *Heuristic Methods for the Generalized Minimum Spanning Tree Problem*, in Proceedings of International Conference on Theory and Applications of Mathematics and Informatics, Thessaloniki, Greece, 16-18 September, Acta Universitatis Apulensis, No. 8, pp. 385-396, 2004.

**g) Alte lucrări și contribuții științifice**

1. Zelina I., Pop P., Pop Sitar C., Tascu I., *A parallel algorithm for Interpolation in Pancake Graph*, in Proceedings of 6th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems, Corfu, Greece, pp. 98-101, 2007, ISBN - ISSN:1790-5117, 978-960-8457-59-1
2. Pop P., Pop Sitar C., Pop N., Zelina I., *A New Approach to Generalized Network Design Problems*, in Proceedings of 6th WSEAS International Conference, Corfu, Greece, pp. 1-5, 2007, ISBN - ISSN:1790-5117, 978-960-8457-59-1.
3. Zelina I, Pop N., *Parallel Lagrange- Hermite Interpolation on Extended Fibonacci Cubes*, microCAD 2005, University of Miskolc, pp. 179-184, 2005.
4. Pop N., Zelina I., *Implementation of Uzawa Algorithm for Saddle Point Formulations in Contact Problems with Friction*, microCAD 2005, University of Miskolc, pp. 125-130, 2005.

Data

20.06.2016

Semnătura

