

Lista de lucrări - Ovidiu Cosma

| Lucrări publicate în jurnale de categoria A | Lista |
|---|---------------------------------|
| 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. | SCIE IF, poziția 3 din Q2 |
| 2. O. Cosma , P.C. Pop, D. Dănculescu, 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. | SCIE AIS |
| 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. | SCIE IF |
| 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. | SCIE IF |
| 5. O. Cosma , P.C. Pop, D. Dănculescu, A parallel algorithm for solving a two-stage fixed-charge transportation problem, Informatica, Vol. 31 No. 4, pp. 681-706, 2020. | SCIE IF |
| 6. O. Cosma , D. Dănculescu, 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. | SCIE IF |
| 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. | SCIE IF |

| Lucrări publicate în jurnale / prezentate la conferințe de categoria B | Lista |
|--|---------|
| 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 | SCIE IF |
| 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. | SCIE IF |

| | |
|---|---------|
| 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. | CORE |
| 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 | SCIE IF |

| Lucrări publicate în jurnale / prezentate la conferințe de categoria C | Lista |
|--|---------|
| 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 | CORE |
| 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. | SCIE IF |
| 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. | SCIE IF |
| 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 | SCIE IF |
| 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. | SCIE IF |
| 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. | SCIE IF |

| | |
|---|---------|
| 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. | SCIE IF |
| 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. | SCIE IF |

| Lucrări publicate în jurnale / prezentate la conferințe de categoria D | |
|---|--|
| 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. | |
| 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. | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 9. O. Cosma , Image steganography tailored to objects contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp. 17-24, 2017 | |

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|--|
| 10. O. Cosma , A method for denoising image contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp.37-46, 2017 |
| 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. |
| 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 |
| 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 |
| 14. O. Cosma , Hiding secret data into a carrier image, Carpathian Journal of Electronic & Computer Engineering, Vol. 5, No. 1, pp. 53-56, 2012 |
| 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 |
| 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 |
| 17. O. Cosma , An evaluation of the multithreading benefits for a network scan application, Creative Mathematics and Informatics, Vol. 17, pp. 110-114, 2008 |
| 18. O. Cosma , Image Compression with a human touch, Creative Mathematics and Informatics, Vol. 17 no. 2, pp. 93-100, 2008 |
| 19. O. Cosma , A method for improving the error diffusion algorithms, Creative Mathematics and Informatics, Vol. 17 No. 3, pp. 375-380, 2008 |
| 20. O. Cosma , A filtering servlet for improving the security of e-mail addresses, Creative Mathematics and Informatics, Vol. 15, pp. 113-116, 2006 |
| 21. V. Lupse, O. Cosma , ERP extension - Supply Chain Management (SCM), Informatica Economica, Vol. 10, No. 2, pp. 120-124, 2006 |
| 22. O. Cosma , V. Lupşe, A Java implementation of the SPIHT coder, Creative Mathematics, Vol. 14, pp. 87-94, 2005. |
| 23. V. Lupşe, O. Cosma , Object Programming of an Integrated System for a Small and Medium Enterprise. Commercial Subsystem - Part three, Informatica Economică Journal, ASE Bucureşti, No. 4 (36), pp. 69-72, 2005 |
| 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 |

| |
|--|
| 25. O. Cosma , Evaluation of the DWT filters for image compression, Carpathian Journal of Mathematics, Vol 20, No. 2, pp. 161-168, 2004 |
| 26. O. Cosma , Image processing based on the Wavelet Transform, Carpathian Journal of Mathematics, Vol. 20, No. 2, pp. 155-159, 2004 |
| 27. O. Cosma , V. Lupșe, Redundancy reduction for binary images based on adaptive prediction, Creative Mathematics, Vol. 13, pp. 65-70, 2004 |
| 28. V. Lupșe, O. Cosma , An application of the binary trees, Creative Mathematics, Vol. 13, pp. 85-89, 2004 |
| 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. |
| 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 |
| 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. |
| 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 |
| 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 |
| 34. O. Cosma , The Window Fourier transform – a suitable alternative for image compression?, Creative Mathematics, Vol. 12, pp. 71-76, 2003 |
| 35. O. Cosma , The Limitations of JPEG Compression, Creative Mathematics, Vol. 12, pp. 65-70, 2003 |
| 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. |
| 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 |
| 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 |
| 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 |
| 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. |

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| 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. |
| 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. |
| 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. |

Cărți

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|--|
| 1. Ovidiu Cosma , Programarea Calculatoarelor în Limbajul C, Vol1: Elemente Fundamentale, Editura Pim, Iași, 2017, ISBN 978-606-13-3670-8, 222 pagini |
| 2. Ovidiu Cosma , Programarea calculatoarelor în limbajul C, Vol.2: Tipuri derivate, Editura Pim, Iași, 2017, ISBN: 978-606-13-3768-2, 225 pagini |
| 3. Ovidiu Cosma , Prelucrarea digitală a imaginilor, lucrări de laborator, Editura Pim, Iași, 2017, ISBN: 978-606-13-4061-3, 2017, 115 pagini |
| 4. Ovidiu Cosma , Programare Orientată pe Obiecte în Limbajul C++, Editura Risoprint, Cluj Napoca, 2015, ISBN 978-973-53-1475-0, 246 pagini |
| 5. Ovidiu Cosma , Tehnici de compresie a imaginilor, Editura Risoprint Cluj Napoca, 2004, ISBN: 973-656-668-4, 200 pagini |
| 6. Ovidiu Cosma , Manual de programare în limbajul C, Editura Risoprint Cluj Napoca, 2004, ISBN: 973-656-666-8, 234 pagini |

Invenții

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| 1. Ovidiu Cosma , Pavel Cristea, Energy supply remote control device, Brevet de invenție nr. 135420. |
| 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. |

Data: 12.12.2022

Semnătura