



Ovidiu Cosma

Cetățenie: română **Data nașterii:** 08/06/1961 **Gen:** Masculin

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📍 **Muncă:** Centrul Universitar Nord, Baia Mare (România)

EXPERIENȚA PROFESIONALĂ

Analist - programator

Centrul Teritorial de Calcul Electronic Baia Mare [1986 – 1992]

Realizarea a 5 proiecte în domeniul IT.
Coordonator colectiv în 3 proiectare.
Brevetare 2 invenții

Asistent

Universitatea de Nord Baia Mare [1992 – 1994]

Titular laboratoare Programarea Calculatoarelor, Sisteme de Operare

Șef Lucrări

Universitatea de Nord Baia Mare [1994 – 2004]

Titular discipline: Programarea Calculatoarelor, Programare Orientată pe Obiecte, Multimedia, Rețele de Calculatoare.

Conferențiar

Universitatea Tehnică din Cluj Napoca, Centrul Universitar Nord din Baia Mare [2004 – În curs]

Titular cursuri: Programarea Calculatoarelor și Limbaje de Programare, Programare Orientată pe Obiecte, Metode Evolute de Programare, Tehnici de Compresie a Imaginilor, Prelucrarea Digitală a Imaginilor, Tehnologii Java, Protocoale de Comunicație, Rețele de Calculatoare, Aplicații Distribuite.

Director Academila Locală CISCO Universitatea de Nord

[2007 – 2015]

Organizare cursuri CCNA Discovery: Networking for Home and Small Business, Working at a Small - to - Medium Business or ISP, CCNA Exploration: Network Fundamentals, Routing Protocols and Concepts

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

Diploma de inginer profilul Electric, specializarea Automatizări și Calculatoare

Institutul Politehnic București, Facultatea de Automatică [1981 – 1986]

Diploma de doctor, domeniul Automatică, titlul tezei: Contribuții la codificarea subbenzilor imaginilor.

Universitatea Politehnica din București [1996 – 2003]

Cerificat de absolvire Modul Pedagogic

Universitatea de Nord Baia Mare, Departamentul pentru Pregătirea Personalului Didactic [2006 – 2006]

Certificat instructor CISCO Certified Network Associate

CISCO [2000 – 2007]

Clasificare națională: CISCO CCNA

CCNA Discovery:

Networking for Home and Small Business

Working at a Small - to - Medium Business or ISP

CCNA Exploration:

Network Fundamentals

Routing Protocols and Concepts

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): **română**

Altă limbă (Alte limbi):

engleza

COMPREHENSIVNE ORALĂ C2 CITIT C2 SCRIS C2

EXPRIMARE SCRISĂ C2 CONVERSAȚIE C2

PUBLICAȚII

Articole (listă selectivă)

- **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.
- **O. Cosma**, P.C. Pop, D. Dănciulescu, 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.
- **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.
- **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.
- **O. Cosma**, P.C. Pop, D. Dănciulescu, A parallel algorithm for solving a two-stage fixed-charge transportation problem, Informatica, Vol. 31 No. 4, pp. 681-706, 2020.
- **O. Cosma**, D. Dănciulescu, 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.
- **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.
- **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
- **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.
- **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.
- **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
- **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
- **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
- **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
- **O. Cosma**, Image steganography tailored to objects contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp. 17-24, 2017
- **O. Cosma**, A method for denoising image contours, Carpathian Journal of Electrical Engineering, Vol. 11, No. 1, pp.37-46, 2017

Participări la conferințe (listă selectivă)

- **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.
- **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 15th Computational Intelligence in Security for Information Systems Conference (CISIS), Lecture Notes in Networks and Systems, Vol. 532, pp. 159-168, 2022
- **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.
- **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
- **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.
- **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.
- **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.
- **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.
- **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.

Invenții

- **Ovidiu Cosma**, Pavel Cristea, Dispozitiv pentru controlul de la distanță al alimentării cu energie electrică, Brevet de invenție nr. 135420 din 06.10.1988.
- Maria Cristea, Radu Lupan, Pavel Cristea, **Ovidiu Cosma**, Ștefan Marinca, Dispozitiv de codificare binară a indicațiilor numărătorului mecanic, Brevet de invenție nr. 141113 din 04.08.1989.

Cărți

- **Ovidiu Cosma**, Programarea Calculatoarelor în Limbajul C, Vol1: Elemente Fundamentale, 222 pg, Editura Pim, ISBN: 978-606-13-3670-8, 2017
- **Ovidiu Cosma**, Programarea calculatoarelor în limbajul C, Vol.2: Tipuri derivate, Ed. PIM Iași, 2017, ISBN: 978-606-13-3768-2, 225 pagini
- **Ovidiu Cosma**, Prelucrarea digitală a imaginilor, lucrări de laborator, Ed. PIM Iași, 2017, ISBN: 978-606-13-4061-3, 115 pagini,
- **Ovidiu Cosma**, Programare Orientată pe Obiecte în Limbajul C++, 246 pg, Risoprint, ISBN 978-973-53-1475-0, 2015
- **Ovidiu Cosma**, Manual de programare în limbajul C, Risoprint, ISBN:973-656-666-8, 2005
- **Ovidiu Cosma**, Tehnici de compresie a imaginilor, 200 pag. Ed. Risoprint Cluj Napoca, 2004, ISBN: 973-656-668-4
- **Ovidiu Cosma**, Multimedia, curs litografiat, Universitatea de Nord Baia Mare, 2000.
- **Ovidiu Cosma**, Rețele de calculatoare, curs litografiat, Universitatea de Nord Baia Mare, 2000.
- **Ovidiu Cosma**, Limbajul C, curs litografiat, Universitatea de Nord Baia Mare, 1999.

PROIECTE

Director proiect Building Trust in Ecosystems and Ecosystem Components BIECO

[2020 – 2023]

Proiect SU-ICT-02-2020, finanțat de European Commission Horizon 2020 - Research and Innovation Framework Programme.

Link: www.bieco.org

Director grant suport Horizon 2020 BIECO, Consolidarea încrederii în ecosisteme și componente ale ecosistemelor

[2020 – 2023]

Proiect finanțat de UEFISCDI, PN-III-P3-3.6-H2020-2020-0039.

ACTIVITĂȚI EDITORIALE ȘI CONFERINȚE

Editor asociat

- Carpathian Journal of Mathematics, Jurnal Categoria A conform SCIE 2019 - 2020
- Creative Mathematics and Informatics
- Carpathian Journal of Electronic and Computer Engineering
- Carpathian Journal of Electrical Engineering

Membru în comitetul științific

- 13th International Conference on Computational Intelligence in Security for Information Systems, CISIS 2020, 24-26 June, Burgos, Spain.
- 15th International Conference on Computational Intelligence in Security for Information Systems, CISIS, 5-7 September 2022, Salamanca, Spain.
- 17th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, 6-8 September 2022, Salamanca, Spain.
- 14th International Conference on Computational Intelligence in Security for Information Systems, CISIS, 22-24 September 2021, Bilbao, Spain.
- Special Session on Building Trust in Ecosystems and Ecosystem Components, CISIS, 22-24 September 2021, Bilbao, Spain.
- 16th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, 22-24 September 2021, Bilbao, Spain.
- 15th International Conference on Soft Computing Models in Industrial and Environmental Applications, SOCO, Burgos, 16-18 September 2020, Burgos, Spain.
- 7th International Conference on Modelling and Development of Intelligent Systems, Sibiu, Romania, 22-24 October, 2020.
- 8th International Conference on Modelling and Development of Intelligent Systems, Sibiu, Romania, 28-30 October, 2022.

Membru în comitetul de organizare

- Special Session on Cybersecurity and Trusted Supply Chains of ICT, International Conference on Computational Intelligence in Security for Information Systems, CISIS, Salamanca, Spain, 5-7 septembrie 2022
- Conferința XGEN 2018, 2019, 2020, 2021
- Concursul de programare pentru studenți, Centru Universitar Nord Baia Mare, 2022
- Concursul de matematică – informatică, Centru Universitar Nord Baia Mare, 2018, 2019, 2020, 2021, 2022