

Universitatea Tehnică din Cluj-Napoca
Facultatea De Automatica si Calculatoare
Departamentul Calculatoare
Sef de lucrari dr. ing. Cristina Bianca Pop

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Nature-inspired Techniques for Optimization Problems in Service Oriented and Green Computing”

Conducător științific : Prof.dr.ing Ioan Salomie

Universitatea Tehnică din Cluj-Napoca

Susținere publică: 2013

B – Cărți și capitole în cărți publicate în ultimii 10 ani

CĂRȚI

1. V. R. Chifu, **C. B. Pop**, I. Salomie, *Bio-inspired Methods for Business Process Mining and Optimization*, Lambert Academic Publishing, Germany, 2015, ISBN-13: 978-3-659-68458-6, nr. pagini: 120.

CAPITOLE DE CARTE

1. **C.B. Pop**, Chifu, V.R., Dragoi, N., Salomie, I., Chifu, E.S. (2020). Recommending Healthy Personalized Daily Menus—A Cuckoo Search-Based Hyper-Heuristic Approach. In: Dey, N., Ashour, A., Bhattacharyya, S. (eds) *Applied Nature-Inspired Computing: Algorithms and Case Studies*. Springer Tracts in Nature-Inspired Computing. Springer, Singapore. [**Springer**]
2. **C. B. Pop**, V.R. Chifu, E. Dumea, I. Salomie, A Firefly Algorithm-Based Approach for Identifying Coalitions of Energy Providers that Best Satisfy the Energy Demand, *Applications of Firefly Algorithm and its Variants*, pp. 53–74, 2019. [**Springer**]
3. Salvatore Vitabile, Michal Marks, Dragan Stojanovic, Sabri Pillana, Jose M. Molina, Mateusz Krzyszton, Andrzej Sikora, Andrzej Jarynowski, Farhoud Hosseinpour, Agnieszka Jakobik, Aleksandra Stojnev Ilic, Ana Respicio, Dorin Moldovan, **C. B. Pop** & Ioan Salomie, *Medical Data Processing and Analysis for Remote Health and Activities Monitoring, High-Performance Modelling and Simulation for Big Data Applications*, pp 186–220, 2019. [**SPRINGER**]
4. **C. B. Pop**, V. R. Chifu, I. Salomie, D. S. Racz, R. M. Bonta, “Hybridization of the Flower Pollination Algorithm - A Case Study in the Problem of Generating Healthy Nutritional Meals for Older Adults”, *Nature-Inspired Computing and Optimization*, Volume 10 of the series *Modeling and Optimization in Science and Technologies*, pp 151-183, 2017. [**SPRINGER**]
5. I. Salomie, V. R. Chifu, **C. B. Pop**, Hybridization of Cuckoo Search and Firefly Algorithms for Selecting the Optimal Solution in Semantic Web Service Composition, Book chapter in *Cuckoo Search and Firefly Algorithm: Theory and Applications*, vol. 516, pp. 217-243, 2014. [**Springer**]

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **C. B. Pop**, T. Cioara, I. Anghel, M. Antal, V. Chifu, C. Antal, I. Salomie, Review of bio-inspired optimization applications in renewable-powered smart grids: Emerging population-based metaheuristics, Energy Reports, Volume 8, 2022, pp. 11769-11798 [ISI JOURNAL]
2. V. Chifu, **C. B. Pop**, D. Demjen, R. Socaci, D. Todea, M. Antal, T. Cioara, I. Anghel, C. Antal, Identifying and Monitoring the Daily Routine of Seniors Living at Home, Sensors Journal, Volume 22, Issue 3, 2022. [ISI JOURNAL]
3. Chifu VR, **Pop C. B.**, Rancea AM, Morar A, Cioara T, Antal M, Anghel I. Deep Learning, Mining, and Collaborative Clustering to Identify Flexible Daily Activities Patterns. Sensors. 2022; 22(13):4803. [ISI JOURNAL]
4. Anghel, I.; Cioara, T.; Moldovan, D.; Antal, M.; Pop, C.D.; Salomie, I.; **Pop, C.B.**; Chifu, V.R., Smart Environments and Social Robots for Age-Friendly Integrated Care Services. Int. J. Environ. Res. Public Health 2020, 17, 3801. [ISI JOURNAL]
5. V. R. Chifu, **C. B. Pop**, I. Salomie, E. St. Chifu, "Hybrid Honey Bees Mating Optimization Algorithm for Identifying the Near-Optimal Solution in Web Service Composition", Computing and Informatics 36(5): 1143-1172, 2017. [ISI JOURNAL]
6. V. R. Chifu, I. Salomie, **C. B. Pop**, A. Niculici, S. Suia, Exploring the Selection of the Optimal Web Service Composition through Ant Colony Optimization, Computing and Informatics Journal, vol. 33, issue 5, 2014. [ISI Journal][SCOPUS]
7. V. R. Chifu, **C. B. Pop**, I. Salomie, D. S. Suia, A. Niculici, A. Negrean, H. Jeflea, Optimising the Semantic Web Service Composition Process Using Bio-inspired Methods, International Journal of Bio-Inspired Computation, vol. 5, no. 4, 2013. [ISI Journal][SCOPUS]
8. **C. B. Pop**, V. R. Chifu, I. Salomie, M. Dinsoreanu, T. David, V. Acretoaie, A. Nagy, C. Oprisa, Biologically-inspired Clustering of Semantic Web Services. Birds or Ants Intelligence? Concurrency and Computation: Practice & Experience Journal, Special Issue on Intelligent Distributed Computing, vol. 24, no. 6, pp. 619–633, 2012. [ISI Journal][SCOPUS]

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul (DBLP, ACM, IEEE, SCOPUS, ISI)¹

1. V. R. Chifu, **C. B. Pop**, E. St. Chifu and H. Barleanu, "Deep Learning for Forecasting the Energy Consumption in Public Buildings," 2021 20th RoEduNet Conference: Networking in Education and Research (RoEduNet), 2021, pp. 1-6. [IEEE]
2. **C. B. Pop**, V. R. Chifu, C. Cordea, E. S. Chifu and O. Barsan, "Forecasting the Short-Term Energy Consumption Using Random Forests and Gradient Boosting,"

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

[ISI] – (webofknowledge.com/)

- 2021 20th RoEduNet Conference: Networking in Education and Research (RoEduNet), 2021, pp. 1-6. [IEEE]
3. V. R. Chifu, **C. B. Pop**, A. Ciurianu, E. S. Chifu and M. Antal, "Machine Learning-based Approach for Predicting Health Information Using Smartwatch Data," 2021 IEEE 17th International Conference on Intelligent Computer Communication and Processing (ICCP), 2021, pp. 391-397. [IEEE]
 4. Moldovan, D., Anghel, I., Cioara, T., **Pop, C. B.**, Chifu, V., Salomie, I. (2022). Binary Cat Swarm Optimization Feature Selection and Machine Learning Based Ensemble for the Classification of the Daily Living Activities of the Elders. In: Vlad, S., Roman, N.M. (eds) 7th International Conference on Advancements of Medicine and Health Care through Technology. MEDITECH 2020. IFMBE Proceedings, vol 88. [Springer]
 5. Maghiar, C., Chifu, V.R., **Pop, C.B.**, Chifu, E.S. (2022). Brain Tumors Detection Using Convolutional Neural Networks. In: Vlad, S., Roman, N.M. (eds) 7th International Conference on Advancements of Medicine and Health Care through Technology. MEDITECH 2020. IFMBE Proceedings, vol 88. [Springer]
 6. Andrea Deme, Viorica R. Chifu, **C. B. Pop**, Emil St. Chifu and Ioan Salomie, Diabetes risk stratification method based on fuzzy logic and bio-inspired meta-heuristics, International Journal of Computational Intelligence Studies Vol. 8, No. 3, pp. 223-244, 2019. [INDERSCIENCE]
 7. Viorica Rozina Chifu, Emil Stefan Chifu, C. B. Pop, Ioan Salomie and Madalina Lupu, Evolutionary-based method for risk stratification of diabetic patients, International Journal of Intelligent Engineering Informatics Vol. 7, No. 1, pp. 37-60, 2019 [INDERSCIENCE]
 8. D. Moldovan, I. Anghel, T. Cioara, I. Salomie, V. Chifu and **C. B. Pop**, "Kangaroo Mob Heuristic for Optimizing Features Selection in Learning the Daily Living Activities of People with Alzheimer's," 2019 22nd International Conference on Control Systems and Computer Science (CSCS), 2019, pp. 236-243. [IEEE][ISI]
 9. V. R. Chifu, **C. B. Pop**, A. Birladeanu, N. Dragoi, I. Salomie, „Choice Function-based Constructive Hyper-Heuristic for Generating Personalized Healthy Menu Recommendations”, 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca, Romania, pp. 111-118, 2018. [IEEE]
 10. D. Moldovan, A. Olosutean, V. R. Chifu, **C. B. Pop**, T. Cioara, I. Anghel, I. Salomie, „Big Data Analytics for the Daily Living Activities of the People with Dementia”, 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca, Romania, pp. 175-181, 2018 [IEEE].
 11. E. St. Chifu, V. R. Chifu, **C. B. Pop**, A. Vlad, I. Salomie, „Machine Learning Based Technique for Detecting Daily Routine and Deviations”, 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing, Cluj-Napoca, Romania, pp.183-189, 2018. [IEEE]
 12. V. R. Chifu, **C. B. Pop**, T. Cioara, I. Anghel, D. Moldovan, I. Salomie, „Identifying the Polypharmacy Side-Effects in Daily Life Activities of Elders with Dementia”, International Symposium on Intelligent and Distributed Computing IDC 2018: Intelligent Distributed Computing XII pp. 380-389, 2018. [Springer]
 13. V. R. Chifu, E. St. Chifu, **C. B. Pop**, I. Salomie, A. Niculici, “Optimizing the Generation of Personalized Healthy Menus for Elderly People Using a Crab Breeding Inspired Method”, 2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, 2017, pp. 155 - 162, ISBN: 978-1-5386-3368-7. [IEEE] [ISI Proc]

14. V. R. Chifu, E. St. Chifu, **C. B. Pop**, I. Salomie, M. Lupu, “Bio-Inspired Method for Generating Healthy Meals for Seniors”, International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2017, pp. 426-433. [DBLP]
15. **C. B. Pop**, V. R. Chifu, I. Salomie, A. Cozac, M. Antal, C. D. Pop, Optimizing the Data Center Energy Consumption using a Particle Swarm Optimization-based Approach, Economics of Grids, Clouds, Systems, and Services, Volume 9512 of the series Lecture Notes in Computer Science pp 176-189, 2016. [Springer] [ISI Proc]
16. V. R. Chifu, I. Salomie, E.St. Chifu, **C.B. Pop**, D. Valea, M. Lupu, M. Antal, Hybrid invasive weed optimization method for generating healthy meals, In V.E. Balas, L.C. Jain, B. Kovačević (eds.), Soft Computing Applications (SOFA), Series: Advances in Intelligent Systems and Computing, vol. 356, Springer, 2016, pp. 335-351. [ISI Proc] [Springer]
17. **C. B. Pop**, V. R. Chifu, I. Salomie, R. Plaian, A. Stetco, Lifestyle Recommendation System for Treating Malnutrition, Intelligent Distributed Computing VIII Studies in Computational Intelligence, vol. 570, pp. 41-46, 2015. [ISI Proc][DBLP][SCOPUS] [Springer]
18. **C. B. Pop**, V. R. Chifu, I. Salomie, C. Prigoana, T. Boros, D. Moldovan, *Generating Healthy Menus for Older Adults using a Hybrid Honey Bees Mating Optimization Approach*, SYNASC 2015 - Workshop of Natural Computing and Applications, Timisoara, Romania, 2015. [IEEE]
19. V. R. Chifu, **C. B. Pop**, I. Salomie, E. St. Chifu, V. Rad, M. Antal, Hybrid Cuckoo Search-based Algorithms for Business Process Mining, Intelligent Systems' 2014 Advances in Intelligent Systems and Computing, vol. 322, pp. 487-498, 2014. [ISI Proc][DBLP][SCOPUS][Springer]
20. V. R. Chifu, I. Salomie, E. Șt. Chifu, **C. B. Pop**, P. Poruțiu, M. Antal, Jigsaw Inspired Meta-Heuristic for Selecting the Optimal Solution in Web Service Composition, The 6th International Workshop on Soft Computing Applications, Timisoara, Romania, 2014. [ISI Proc][DBLP][SCOPUS][Springer]
21. V. R. Chifu, I. Salomie, E.Șt. Chifu, I. Balla, **C. B. Pop**, M. Antal, *Cuckoo Search Algorithm for Clustering Food Offers*, IEEE 10th International Conference on Intelligent Computer Communication and Processing, pp. 17 – 22, Cluj-Napoca, România, 2014. [SCOPUS][IEEE][ISI Proc]
22. **C. B. Pop**, V. R. Chifu, I. Salomie, A. Cozac, I. Mesaros, *Particle Swarm Optimization-based Method for Generating Healthy Lifestyle Recommendations*, IEEE International Conference on Intelligent Computer and Communication, pp. 15 – 21, Cluj-Napoca, Romania, 2013. [IEEE][SCOPUS]
23. V. R. Chifu, **C. B. Pop**, I. Salomie, S. Suia, A. Niculici, Optimizing the Semantic Web Service Composition Process using Cuckoo Search, Intelligent Distributed Computing V, Studies in Computational Intelligence, vol. 382, pp. 93-102, 2012. [ISI Proc][DBLP][SCOPUS][Springer]
24. **C. B. Pop**, V. R. Chifu, I. Salomie, T. Kovacs, A. Niculici, S. Suia, *Business Process Optimization using Bio-Inspired Methods - Ants or Bees Intelligence?*, IEEE International Conference on Intelligent Computer and Communication, pp. 65-71, Cluj-Napoca, Romania, 2012. [IEEE][SCOPUS]
25. **C. B. Pop**, V. R. Chifu, I. Salomie, A. Negrean, H. Jeflea, *Hybrid Genetic Algorithm for Selecting the Optimal or Near-optimal Solution in Semantic Web Service Composition*, IEEE International Conference on Intelligent Computer and Communication, pp. 57 – 64, Cluj-Napoca, Romania, 2012. [IEEE][SCOPUS]

26. I. Salomie, V. R. Chifu, **C. B. Pop**, R. Suci, *Firefly-based Business Process Optimization*, IEEE International Conference on Intelligent Computer and Communication, pp. 49 – 56, Cluj-Napoca, Romania, 2012. [IEEE][SCOPUS]
27. V. R. Chifu, **C. B. Pop**, I. Salomie, I. Balla, R. Paven, *Hybrid Particle Swarm Optimization Method for Process Mining*, IEEE International Conference on Intelligent Computer and Communication, pp. 273 – 279, Cluj-Napoca, Romania, 2012. [IEEE][SCOPUS]
28. **C. B. Pop**, I. Anghel, T. Cioara, I. Salomie, I. Vartic, *A Swarm-inspired Data Center Consolidation Methodology*, The 2nd International Conference on Web Intelligence, Mining and Semantics, Article no. 41, Craiova, Romania, 2012. [DBLP][ACM]