

# Lista lucrări publicate

Titlul tezei de doctorat:

High-Performance Approximate Pattern-Matching for Bioinformatics and CyberSecurity

Conference publications

1. C. Pungilă, D. Galiş, and V. Negru, “Optimizing Pattern-Matching for Memory-Efficient Heterogeneous DNA Processing in Bioinformatics”, IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI), 2018, pp. 1-5, doi: [10.1109/saci.2018.8441000](https://doi.org/10.1109/saci.2018.8441000).
2. C. Pungilă, D. Galiş, and V. Negru, “Survey on Feasibility of Pattern Matching Techniques In Heterogeneous Architectures for Bioinformatics”, 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2018, pp. 368-375, doi: [10.1109/SYNASC.2018.00063](https://doi.org/10.1109/SYNASC.2018.00063).
3. D. Galiş, C. Pungilă, and V. Negru, “A Fast NDFA-Based Approach to Approximate Pattern-Matching for Plagiarism Detection in Blockchain-Driven NFTs”. In: R. Wrembel, J. Gamper, G. Kotsis, A.M. Tjoa, I. Khalil,(eds) “Big Data Analytics and Knowledge Discovery”. (DaWaK) 2022.Lecture Notes in Computer Science, vol 13428. Springer, Cham., doi: [10.1007/978-3-031-12670-3\\_5](https://doi.org/10.1007/978-3-031-12670-3_5).
4. M. Radovancovici, D. Galiş, and C. Pungilă, “A Practical Analysis of Techniques for Minting Genetic Information as NFTs in Blockchain Technology”, 24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2022, doi: [10.1109/SYNASC57785.2022.00060](https://doi.org/10.1109/SYNASC57785.2022.00060).
5. M. Radovancovici, D. Galiş, and C. Pungilă, “Using N-Gram Variations in Static Analysis for Malware Detection”, 24th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC),2022, doi: [10.1109/SYNASC57785.2022.00037](https://doi.org/10.1109/SYNASC57785.2022.00037).

Journal publications

1. D. Galiş, C Pungilă, V Negru “Realtime polymorphic malicious behavior detection in blockchain-based smart contracts”, Logic Journal of the IGPL Volume 32, Issue 2, April 2024, Pages 210–223, doi: [10.1093/jigpal/jzae016](https://doi.org/10.1093/jigpal/jzae016).



## Book chapters

1. A. Spătaru, D. Galiş, C. Pungilă “Metode tehnice pentru detec t, ia rezistent, ei antimicrobiene folosind arhitectura de tip blockchain”. In: I. Hutu, T. Iancu, (eds) “Rezistența la preparate antimicrobiene din perspectivă bioeconomică - Bioeconomic perspective on AMR, Agroprint, Timișoara, 2021

## Online publications

1. C. Pungilă, D. Galiş and V. Negru, A New High-Performance Approach to Approximate Pattern-Matching for Plagiarism Detection in Blockchain-Based Non-Fungible Tokens (NFTs), arXiv e-prints, [10.48550/arXiv.2205.14492](https://arxiv.org/abs/10.48550/arXiv.2205.14492)., May, 2022

