



CURRICULUM VITAE

Date personale

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Titlu academic: PhD candidate MSc BSc.

Disciplină, departament: Software Engineering / Computer Science



Domeniul profesional de activitate

Specialitate/supraspecializări: Security Researcher, Applied Machine Learning

Activitate de cercetare

Teme și direcții de cercetare (max. 3 direcții):

1. IoT Security using Machine Learning

Lucrări publicate în extenso (max. 5 lucrări reprezentative):

1. Pădurean, I., Genge, B. (2024). Intelligent Driver Identification System. In: Moldovan, L., Gligor, A. (eds) The 17th International Conference Interdisciplinarity in Engineering. Inter-ENG 2023. Lecture Notes in Networks and Systems, vol 929. Springer, Cham. https://doi.org/10.1007/978-3-031-54674-7_26
2. Genge, B., Pădurean, I. (2024). Breaking Matter: Vulnerabilities in the Matter Protocol, BlackHat Europe 2024, [EU-24-Genge-BreakingMatterVulnerabilitiesInTheMatterProtocol-wp.pdf](#)
3. Genge, B., Pădurean, I., Macovei, D., (2025). Exploiting DNS for Stealthy User Tracking, [USA-25-Genge-Exploiting-DNS-for-Stealthy-Tracking-wp.pdf](#)
4. I. Pădurean and B. Genge, "Detecting Active Operating System Fingerprinting Attempts Using Machine Learning," *2025 IEEE 21st International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2025, pp. 1-8, doi: 10.1109/ICCP68926.2025.11427169 [Detecting Active Operating System Fingerprinting Attempts Using Machine Learning | IEEE Conference Publication | IEEE Xplore](#)

