

List of Publications

The evaluation of the author's publications complies with the standards set by CNATDCU (National Council for the Recognition of University Degrees, Diplomas and Certificates), applicable to doctoral students enrolled after October 1, 2018. Rankings are presented based on the classification of conferences¹ and journals² in the Computer Science field.

1. **Adrian-Silviu Roman**, Roland Bolboacă, Sophie Cerf, Piroška Haller, Bogdan Robu (2025). *APU-TrajGen: Adaptive Privacy and Utility Preserving Real-Time Synthetic Trajectory Generation*. IEEE Access. [Under Review]
Journal Paper, Rank: B, 0 points, source: UEFISCDI 2023.
2. **Adrian-Silviu Roman**, Bèla Genge, Piroška Haller (2024, September). *Balancing Privacy and Utility in Multivariate Time-Series Classification*. In The 19th International Workshop on Data Privacy Management (DPM) part of The 29th European Symposium on Research in Computer Security (ESORICS), <https://link.springer.com/book/9783031823480>.
Conference Paper, Rank: B (Workshop within an A-ranked conference), 4 points, source: CORE2023¹.
3. **Adrian-Silviu Roman**, Bèla Genge, Bolboacă Roland (2024, September). *Privacy-Oriented Feature Selection for Multivariate Time-Series Classification*. In The 28th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES), Volume 246, 2024, (pp. 500-509), <https://doi.org/10.1016/j.procs.2024.09.430>.
Conference Paper, Rank: B, 4 points, source: CORE2023¹.
4. **Adrian-Silviu Roman** (2023, October). *Dynamic Utility-Improving Time Series Data Perturbation Framework*. In The 16th International Conference Interdisciplinarity in Engineering (Inter-Eng) (pp. 850-861), Lecture Notes in Networks and Systems, vol 605. Springer, Cham, https://doi.org/10.1007/978-3-031-22375-4_69.
Conference Paper, Rank: National, 1 point, source: CORE2023¹.
5. Béla Genge, Piroška Haller, and **Adrian-Silviu Roman** (2023, March). *E-APTDetect: Early Advanced Persistent Threat Detection in Critical Infrastructures with Dynamic Attestation*. Applied Sciences, 13, no. 6 (2023): 3409,



<https://doi.org/10.3390/app13063409>.

Journal Paper, Rank: C, 2 points, source: UEFISCDI 2023 (October)²

6. **Adrian-Silviu Roman**, and Bèla Genge, (2023, October). *A Differential Privacy-Based Approach for Protecting Crowdsourced WiFi RSS Data*. In 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP) (pp. 255-262). IEEE, <https://doi.org/10.1109/ICCP60212.2023.10398725>.

Conference Paper, Rank: National, 1 point, source: CORE2023¹.

7. **Adrian-Silviu Roman** (2023, March). *Evaluating the Privacy and Utility of Time-Series Data Perturbation Algorithms*. Mathematics, 11(5), 1260, <https://doi.org/10.3390/math11051260>.

Journal Paper, Rank: C, 2 points, source: UEFISCDI 2023 (October)²

8. **Adrian-Silviu Roman**, Béla Genge, Adrian-Vasile Duka, and Piroška Haller (2021, December). *Privacy-Preserving Tampering Detection in Automotive Systems*. Electronics, 10, no. 24 (2021): 3161, <https://doi.org/10.3390/electronics10243161>.

Journal Paper, Rank: C, 1 point, source: UEFISCDI 2022 (October)²

Publication scores per rank:

- Rank A: 0 points
- Rank B: 8 points
- Rank C: 5 points
- Rank D: 2 points

Total publication score: 15 points.

¹CORE Conference Ranking Portal. <http://portal.core.edu.au/conf-ranks/>

²UEFISCDI. <https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole>

