

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,
PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT**

Ing. Lucian-Tudor POPA student doctorand

1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1. Bogdan Groza, **Lucian Popa**, and Pal-Stefan Murvay. "TRICKS—Time TRIGGERed Covert Key Sharing for Controller Area Networks". IEEE Access 7 (2019), pp. 104294-104307, **(Q2), WOS:000481692400052**
2. Bogdan Groza, **Lucian Popa**, and Pal-Stefan Murvay. "CANTO-Covert Authentification with Timing channels over Optimized traffic flows for CAN". IEEE Transactions on Information Forensics and Security 16 (2020), pp. 601-616, **(Q1), WOS:000571722500003**
3. Bogdan Groza, **Lucian Popa**, Pal-Stefan Murvay. "Highly efficient authentication for CAN by identifier reallocation with ordered CMAcs." IEEE Transactions on Vehicular Technology 69.6 (2020), pp. 6129-6140, **(Q1), WOS:000558744200033**
4. Pal-Stefan Murvay, **Lucian Popa**, Bogdan Groza. Securing the controller area network with Covert Voltage Channels. International Journal of Information Security (2021), pp. 1-15, **(Q2), WOS:000608957200002**
5. Adrian Musuroi, Bogdan Groza, **Lucian Popa**, Pal-Stefan Murvay, "Fast and Efficient Group Key Exchange in Controller Area Networks (CAN)." IEEE Transactions on Vehicular Technology 70.9 (2021), pp. 9385 – 9399, **(Q1), WOS:000700122200079.**
6. **Lucian Popa**, Bogdan Groza, Camil Jichici, Pal-Stefan Murvay. "ECUPrint - Physical Fingerprinting Electronic Control Units on CAN Buses inside Cars and SAE J1939 Compliant Vehicles". IEEE Transactions on Information Forensics and Security 17 (2022): 1185-1200. **(Q1), WOS:000772409700008**
7. **Lucian Popa**, Adriana Berdich, and Bogdan Groza, "CarTwin—Development of a Digital Twin for a Real-World In-Vehicle CAN Network", Applied Sciences, vol. 13, no. 1, p. 445, 2022, **(Q2), WOS:000909725200001**

2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

1. **Lucian Popa**, Bogdan Groza, and Pal-Stefan Murvay. "Performance evaluation of elliptic curve libraries on automotive-grade microcontrollers". Proceedings of the 14th International Conference on Availability, Reliability and Security, 2019, **WOS:000552726400100**
2. Bogdan Groza, **Lucian Popa**, Pal-Stefan Murvay. "CarINA-Car sharing with Identity based Access control reinforced by TPM". International Conference on Computer Safety, Reliability, and Security. Springer, Cham, 2019, **WOS:000561031400019**
3. Pal-Stefan Murvay, **Lucian Popa**, and Bogdan Groza. "Accommodating time-triggered authentication to FlexRay demands." Proceedings of the Third Central European Cybersecurity Conference, 2019, **WOS:000526086000002**
4. Bogdan Groza, Pal-Stefan Murvay, **Lucian Popa**, Camil Jichici. "CAN-SQUARE - Decimeter Level Localization of Electronic Control Units on CAN Buses", In European Symposium on Research in Computer Security (pp. 668-690), Lecture Notes in Computer Science, vol 12972. Springer, Cham, 2021, **WOS:000772653800032**
5. Bogdan Groza, **Lucian Popa**, Pal-Stefan Murvay, Yuval Elovici, Asaf Shabtai. CANARY-a reactive defense mechanism for Controller Area Networks based on Active {RelaYs}. In 30th USENIX Security Symposium (USENIX Security 21) (pp. 4259-4276), **WOS:000722006804033**
6. Bogdan Groza, **Lucian Popa**, Tudor Andreica, Pal-Stefan Murvay, Asaf Shabtai, Yuval Elovici, "PanoptiCANs – Adversary-resilient Architectures for Controller Area Networks", In European Symposium on Research in Computer Security 2022 (ESORICS 22), **WOS:000866567700032**
7. **Lucian Popa**, Camil Jichici, Tudor Andreica, Pal-Stefan Murvay, and Bogdan Groza, "Impact of Wiring Characteristicson Voltage-based Fingerprinting in Controller Area Networks", May 2023, IEEE 17th International Symposium on Applied Computational Intelligence and Informatics (SACI 2023), **accepted for publication, conferințele anterioare (2018-2022) indexate WoS**

3. Lucrări științifice publicate în reviste de specialitate indexate BDI (cu specificarea BDI)

4. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI (cu specificarea BDI)

1. Bogdan Groza, **Lucian Popa**, and Pal-Stefan Murvay. "INCANTA-INtrusion detection in Controller Area Networks with Time-covert Authentication". Security and Safety Interplay of Intelligent Software Systems. Springer, Cham, 2018, pp. 94-110, [SpringerLink](#)

5. Lucrări științifice publicate în volumele unor manifestări științifice internaționale (Proceedings) din străinătate

1. Bogdan Groza, Horatiu Gurban, **Lucian Popa**, Adriana Berdich, Pal-Stefan Murvay. "Car-to-Smartphone Interactions: Experimental Setup, Risk Analysis and Security Technologies." 5th International Workshop on Critical Automotive Applications: Robustness & Safety. 2019, **HAL Science**

6. Lucrări științifice publicate în volumele unor manifestări științifice

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- 2.

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