# Publications List

**Thesis Title:** Trusted Software-Defined Vehicles

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Niels Alexander NIJDAM, PhD - University of Geneva

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Prof. Dimitri KONSTANTAS, PhD - University of Geneva

1. M. Benyahya, A. Collen, **T. Lenard**, N. Nijdam, "Driving Towards Resilience: Advancements in Threat Analysis and Risk Assessment for Connected and Automated Vehicles" submitted at IEEE Transactions Intelligent Transportation Systems, 2024.

   Under review.

2. **Lenard, T.**, 2023, October. A Tale of Two Automotive Security Services: A Formal Analysis. In *International Conference Interdisciplinarity in Engineering* (pp. 441-458). Cham: Springer Nature Switzerland.

   Doi: https://doi.org/10.1007/978-3-031-54674-7_33

   Link: https://opeva.eu/wp-content/uploads/2024/06/UNIGE_INTER-ENG.pdf

3. **Lenard, T.**, Genge, B., Collen, A. and Nijdam, N.A., 2023, October. LOKI-2: An Improved Lightweight Cryptographic Key Distribution Protocol for Automotive Systems. In *2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP)* (pp. 187-194). IEEE.

   Doi: 10.1109/ICCP60212.2023.10398644

   Link: https://opeva.eu/wp-content/uploads/2024/06/UNIGE_ICCP.pdf

4. **Lenard, T.**, Collen, A., Benyahya, M., Nijdam, N.A. and Genge, B., 2023. Exploring Trust Modelling and Management Techniques in the Context of Distributed Wireless Networks: A Literature Review. *IEEE Access*.

   Doi: https://doi.org/10.1109/ACCESS.2023.3320945

   Link: https://ieeexplore.ieee.org/abstract/document/10267920

5. Benyahya, M., **Lenard, T.**, Collen, A. and Nijdam, N.A., 2023, August. A Systematic Review of Threat Analysis and Risk Assessment Methodologies for Connected and Automated Vehicles. In *Proceedings of the 18th International Conference on Availability, Reliability and Security* (pp. 1-10).

   Doi: https://doi.org/10.1145/3600160.3605084

   Link: https://dl.acm.org/doi/pdf/10.1145/3600160.3605084

6. **Lenard, T.**, Collen, A., Nijdam, N.A. and Genge, B., 2023, July. A Key to Embedded System Security: Locking and Unlocking Secrets with a Trusted Platform Module. In *2023 IEEE European Symposium on Security and Privacy Workshops (EuroS&PW)* (pp. 329-335). IEEE.

   Doi: https://doi.org/10.1109/EuroSPW59978.2023.00041

   Link: https://opeva.eu/wp-content/uploads/2024/06/UNIGE_RICSS.pdf

7. **Lenard, T**., Genge, B., Haller, P., Collen, A. and Nijdam, N.A., 2023. An automotive reference testbed with trusted security services. *Electronics*, *12*(4), p.888.

   Doi: https://doi.org/10.3390/electronics12040888

   Link: https://www.mdpi.com/2079-9292/12/4/888

8. **Lenard, T**. and Bolboaca, R., 2021, November. A statefull firewall and intrusion detection system enforced with secure logging for controller area network. In *Proceedings of the 2021 European Interdisciplinary Cybersecurity Conference* (pp. 39-45).

   Doi: https://doi.org/10.1145/3487405.3487650

   Link: https://nislab.umfst.ro/files/EICC_Firewall.pdf

9. **Lenard, T.**, Bolboacă, R. and Genge, B., 2020, September. LOKI: A lightweight cryptographic key distribution protocol for controller area networks. In *2020 IEEE 16th International Conference on Intelligent Computer Communication and Processing (ICCP)* (pp. 513-519). IEEE.

   Doi: https://doi.org/10.1109/ICCP51029.2020.9266192

   Link: https://nislab.umfst.ro/files/ICCP_LOKI2020.pdf

10. Bolboacă, R., **Lenard, T.**, Genge, B. and Haller, P., 2020, August. Locality sensitive hashing for tampering detection in automotive systems. In *Proceedings of the 15th International Conference on Availability, Reliability and Security* (pp. 1-7)

    Doi: https://doi.org/10.1145/3407023.3409206

    Link: https://nislab.umfst.ro/files/IWCC_LSH2020.pdf

11. **Lenard, T.**, Bolboacă, R., Genge, B. and Haller, P., 2020, June. MixCAN: Mixed and backward-compatible data authentication scheme for controller area networks. In *2020 IFIP Networking Conference (Networking)* (pp. 395-403). IEEE.

    Link: https://nislab.umfst.ro/files/IFIP_Networking2020.pdf