

#### **ADAssure : debugging methodology for autonomous driving control algorithms**

**Roberts, Andrew James; Heidari Iman, Mohammad Reza; Bellone, Mauro; Ghasempouri, Tara; Raik, Jaan; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian** 2024 Design, Automation & Test in Europe Conference & Exhibition (DATE) : proceedings 2024 / p. 1-6 <https://doi.org/10.23919/DATE58400.2024.10546519> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **ADSecData platform: an open-source data platform for autonomous driving cybersecurity**

**Roberts, Andrew James; Malayjerdi, Mohsen; Bellone, Mauro; Sell, Raivo; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian** 2025 IEEE 101st Vehicular Technology Conference, VTC2025-Spring, 17-20 June 2025, Oslo, Norway 2025 / 7 p <https://www.etis.ee/Portal/Publications/Display/d6c0e7e7-c789-4c27-ae91-aabd943e3e7f>

#### **ADSecLang: a domain-specific language for cybersecurity testing of autonomous vehicles**

**Roberts, Andrew James; Cheng, Jingyue; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian** 2025 IEEE 101st Vehicular Technology Conference, VTC2025-Spring, 17-20 June 2025, Oslo, Norway 2025 / 6 p <https://www.etis.ee/Portal/Publications/Display/a8bb1234-4dfd-46f5-aae6-19bf25b2f222>

#### **Analysing adversarial threats to rule-based local-planning algorithms for autonomous driving**

**Roberts, Andrew James; Malayjerdi, Mohsen; Bellone, Mauro; Maennel, Olaf Manuel; Malayjerdi, Ehsan** The Inaugural Symposium on Vehicle Security and Privacy (VehicleSec) 2023, 27 February 2023, San Diego, CA, USA 2023 / 8 p. : ill <https://doi.org/10.14722/vehiclesec.2023.23086>

#### **Analysis of autonomous driving software to low-level sensor cyber attacks**

**Roberts, Andrew James; Malayjerdi, Mohsen; Bellone, Mauro; Sell, Raivo; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian** 20th International Conference on Software Engineering for Adaptive and Self-Managing Systems, SEAMS 2025, 28-29 April 2025, Ottawa, Ontario, Canada 2025 / 11 p <https://www.etis.ee/Portal/Publications/Display/c612b9a7-7a51-4621-b2d2-76ec03764667>

#### **Combined safety and cybersecurity testing methodology for autonomous driving algorithms**

**Roberts, Andrew James; Malayjerdi, Mohsen; Malayjerdi, Ehsan; Maennel, Olaf Manuel** CSCS '22 : Proceedings of the 6th ACM Computer Science in Cars Symposium 2022 / art. 12, 10 p <https://doi.org/10.1145/3568160.3570235>

#### **Cybersecurity test range for autonomous vehicle shuttles**

**Roberts, Andrew James; Snetkov, Nikita; Maennel, Olaf Manuel** 2021 IEEE European Symposium on Security and Privacy Workshops EuroS&PW 2021 : Virtual Conference, 6-10 September 2021 : proceedings 2021 / p. 239-248 : ill <https://doi.org/10.1109/EuroSPW54576.2021.00031>

#### **Cybersecurity testing and attack propagation analysis of autonomous driving software = Autonomoose sõiduki juhtimistarkvara küberturvalisuse testimine ja rünnakute leviku analüüs**

**Roberts, Andrew James** 2025 [https://www.ester.ee/record=b5750527\\*est](https://www.ester.ee/record=b5750527*est) <https://digikogu.taltech.ee/et/Item/fbecd0b1-252c-4a7d-b06c-588683fd4640> <https://doi.org/10.23658/taltech.41/2025>

#### **FuzzSense : Towards A Modular Fuzzing Framework for Autonomous Driving Software**

**Roberts, Andrew James; Teply, Lorenz; Pese, Mert D.; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian** arXiv.org 2025 / arXiv:2504.10717, 6 p. : ill <https://doi.org/10.48550/arXiv.2504.10717>

#### **A global survey of standardization and industry practices of automotive cybersecurity validation and verification testing processes and tools**

**Roberts, Andrew James; Marksteiner, Stefan; Soyuturk, Mujdat; Yaman, Berkay; Yang, Yi** SAE international journal of connected and automated vehicles 2023 / art. 12-07-02-0013 <https://doi.org/10.4271/12-07-02-0013> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **REACT: Autonomous intrusion response system for intelligent vehicles**

**Hamad, Mohammad; Finkenzeller, Andreas; Kühr, Michael; Roberts, Andrew James; Maennel, Olaf Manuel; Steinhorst, Sebastian; Prevelakis, Vassilis** Computers and security 2024 / art. 104008, 17 p. : ill <https://doi.org/10.1016/j.cose.2024.104008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)