

Early detection of network attacks using deep learning

Ahmad, Tanwir; Truscan, Dragos; **Vain, Jüri**; Porres, Ivan 2022 IEEE 15th International Conference on Software Testing, Verification and Validation Workshops : ICSTW 2022, 4–13 April 2022, Virtual Event : proceedings 2022 / p. 30-39
<https://doi.org/10.1109/ICSTW55395.2022.00020> <https://arxiv.org/pdf/2201.11628.pdf>

EARLY: a tool for real-time security attack detection

Ahmad, Tanwir; Truscan, Dragos; **Vain, Jüri** CyberSecurity in a DevOps Environment: From Requirements to Monitoring 2024 / p. 225-251 https://doi.org/10.1007/978-3-031-42212-6_8 [Article at Scopus](#)

Iterative optimization of hyperparameter-based metamorphic transformations

Sudheerbabu, Gaadha; Ahmad, Tanwir; Truscan, Dragos; **Vain, Jüri**; Porres, Ivan 2024 IEEE International Conference on Software Testing, Verification and Validation Workshops (ICSTW) 2024 / p. 13-20 <https://doi.org/10.1109/ICSTW60967.2024.00016> [Article at Scopus](#) [Article at WOS](#)

Metamorphic testing for verification and fault localization in industrial control systems

Sudheerbabu, Gaadha; Ahmad, Tanwir; Truscan, Dragos; **Vain, Jüri** CyberSecurity in a DevOps Environment: From Requirements to Monitoring 2023 / p. 127 - 159 https://doi.org/10.1007/978-3-031-42212-6_5 [Article at Scopus](#)

Preliminary results in using attention for increasing attack identification efficiency

Ahmad, Tanwir; Truscan, Dragos; **Vain, Jüri** 2023 IEEE 16th International Conference on Software Testing, Verification and Validation Workshops, ICSTW 2023, 16-20 April 2023, Dublin, Ireland, Proceedings 2023 / p. 159 - 164
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A two-phase metamorphic approach for testing industrial control systems

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