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Method of detecting anomalies in SSL and/or TLS communications, respective device and computer-program product

Method for detecting anomalies in a monitored network regarding encrypted communications which use either SSL or TLS protocol. The proposed method analyzes SSL/TLS handshakes between network clients and external servers. Then, it combines machine learning techniques with the usage of parametrized cost functions to, respectively, classify suspicious communications and attribute them an anomaly score.

patent: IT102021000015782

Patent application countries:
IT, EU, US, CA, AU

Method of detecting systematic communications in a communication network, respective device and computer-program product

Method for detecting systematic communications in a monitored network that could be indicators of a malware infection. The method analyzes specific network protocols and, for each observed packet, extracts packet metadata to measure the systematicity of transmissions between a source and a destination machine, using incremental variance to guarantee the best performance.

patent: IT102021000011267

Patent application countries:
IT, EU, US, CA, AU

Method of detecting anomalies in communications, respective device and computer-program product

Method of detecting anomalies in unencrypted communications of a monitored network, through the analysis of communication metadata. Metadata characterize each network devices and helps building Bayesian network models able to detect possible behavioral anomalies.

Patent application countries:
IT, EU, US, CA, AU