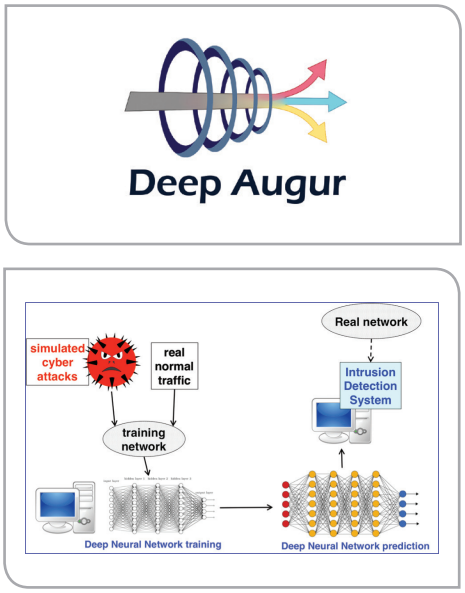
Deep-Augur

Digital Tech



Applying Deep Learning techniques to address network traffic issues

The traditional Deep Packet Inspection (DPI) based traffic analysis solutions rely on accessing packet payload to identify network flows and require massive amounts of resources (HW and SW). The Deep Augur Smart Traffic Analysers facilitate and speed up the characterisation of network flows by means of advanced Deep Neural Network techniques.

The current traffic analysis products rely on highly resource consuming inspection of packet payload. The Deep Augur smart traffic analysers (STA) are based on deep learning techniques and can analyse network flows (classify, predict, detect anomalies, etc.) without accessing the packet payload. The Deep Augur generator trains generic machine learning components and produces smart traffic analysers tailored to solve the problems of the customer network.

STAs can be applied in real-time scenarios or as forensic tools and be commercialised as a service or as pluggable building blocks.

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Competitive Advantages

- Deep Augur provides a highly flexible framework that allows simple and quick configuration to detect virtually any type of network traffic
- Being based on Machine Learning technics, the training does not require manually characterising the traffic
- Deep Augur is developing the unique capability to characterise encrypted traffic (VPN, QUIC, etc.)

Target Markets

Deep Augur's flexibility allows for a broad range of target use cases and customers:

- Network management: broad spectrum traffic identification, classification, etc.
- Security providers: detecting malicious traffic patterns
- Network / media providers: anti-piracy, detecting unlawful content exchange, etc.

Status and Traction

- During 2018 the Smart Traffic Analyser will be validated in a PoC in Telefonica network labs, demonstrating the ability to characterise a first non-trivial traffic pattern covering a potential real-life use case
- Determining market demands. Looking for potential use cases with commercial interest

Road Map

2018

- Validation of the Smart Traffic Analyser for a first use case, requiring characterisation of a non-trivial traffic pattern in Telefónica network labs

2019

- Expanding the variety of supported use cases (unlawful video traffic detection, malware detection, etc.) and traffic types through additional pilots
- Bringing the product to a commercial-grade level. Validate commercial interest

2020

- Commercial launch of services based on STA generation and use

Connect

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