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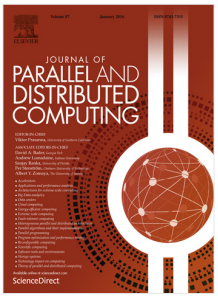

A scalable distributed machine learning approach for attack detection in edge computing environments

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***Highlights (for review)**

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Implementation of a distributed attack detection platform, based on machine learning, for IoT applications and cyber-physical systems

Benefits of edge computing capabilities and Extreme Learning Machines for effectively performing traffic classification based on sophisticated models that are pre-built over the cloud.

Deep traffic inspection and classification activities pushed on dedicated edge devices, in order to distribute the processing intelligence near to the data sources.

Shifts the more computationally expensive and storage-demanding operations, associated to classifier training and model construction, to the cloud, leveraging HPC cluster resources

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