

HECTOR

Hardware enabled crypto and randomness

HECTOR is aiming to close the gap between the mathematical heaven of cryptographic algorithms and their

- **efficient,**
- **secure and**
- **robust**

hardware implementations.

Further, the goal is to **bridge basic algorithmic approaches with hardware-level security implementations, while integrating RNGs and PUFs, together with physical attack countermeasures.**

HECTOR's main objectives:

- Implementation of state-of-the-art cryptographic algorithms
- provide robust and high-entropy random numbers including quality metrics
- master gradual degradation of security levels of cryptographic primitives and hardware security countermeasures
- balance efficiency and robustness
- provide inputs towards standardisation and certification regarding quality testing and evaluation of random numbers

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THALES



Project Information

HECTOR

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