

Seminar

PUF and Blockchain - Useful or Nonsense?

In order to protect supply chains, to identify devices, or to ensure data and hardware security several works have been published, which use both Physical Unclonable Functions (PUFs) and Blockchain at the same time. But do these approaches add some value or is it just a hype?

The goal of this seminar is to

- Provide an overview over existing work.
- Analyze the different security targets addressed by Blockchains and PUFs.
- Reveal possible pit falls and benefits arising from this combination.

The following might serve as a starting point to the topic and for literature research:

- Intrinsic ID; Internet of Things Authentication: A Blockchain solution using SRAM Physical Unclonable Functions [\[Link\]](#)
- L. Negka et al.; Employing Blockchain and Physical Unclonable Functions for Counterfeit IoT Devices Detection; COINS '19: Proceedings of the International Conference on Omni-Layer Intelligent Systems [\[Link\]](#)

Contact

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