

Forschungspraxis, Interdisciplinary Project, Master's Thesis

Error Correction for PUFs

Each integrated ciruict is subject to process variations. PUFs can derive secret keys from this fingerprint-like feature of a device. To ensure stable cryptographic keys error correction is needed.

If this might be interesting for you, feel free to contact me. With this position, I am not targeting a specific topic, but it is rather a nice opportunity work on any kind of error correction topic for PUFs. Depending on your kind of thesis/internship, your background and knowledge, and most importantly your interests, we can try to find a suitable topic together.

Prerequisites

Helpful previous knowledge:

- Error correcting Codes
- PUFs

Helpful Tools (you will not need all of them at once most likely)

- Python
- Matlab
- Verilog (for FPGA)
- Reading Papers
- C (e.g for Microcontroller)

Advisors

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