Forschungspraxis

Machine Learning for State Machine Identification

The final step of hardware reverse engineering is the identification of the functionality of a chip, after it has been delayered and imaged. This is often done by matching against known designs. Machine Learning methods can be applied to improve the identification. In this work, the applicability of pattern matching, classification algorithms or Neural Nets should be tested and analysed.

Prerequisites

python / C

Contact

Johanna Baehr

Chair for Security in Information Technology
Head: Prof. Dr.-Ing. Georg Sigl
Technical University of Munich
Arcisstr. 21, 80333 Munich (Germany)
Tel.: +49 (89) 289 – 28246
Room: 0101.Z1.014
johanna.baehr@tum.de

Advisors

Johanna Baehr