

Hardware Trojan Detection

Maximilian Heim

University Albstadt-Sigmaringen

May 14, 2022

- 1 Introduction
 - Hardware Trojans
 - Relevance
- 2 Detection
- 3 Conclusion

What are hardware trojans?

- ❶ Malicious modification of an IC
- ❷ Consists of a trigger and a payload
- ❸ Triggers: Time bombs, combinational, analog ...
- ❹ Payloads: Denial of service, extraction of information, keys

Why is detecting them relevant?

- 1 Military
- 2 Finance
- 3 Energy
- 4 Government agencies
- 5 Surveillance states

