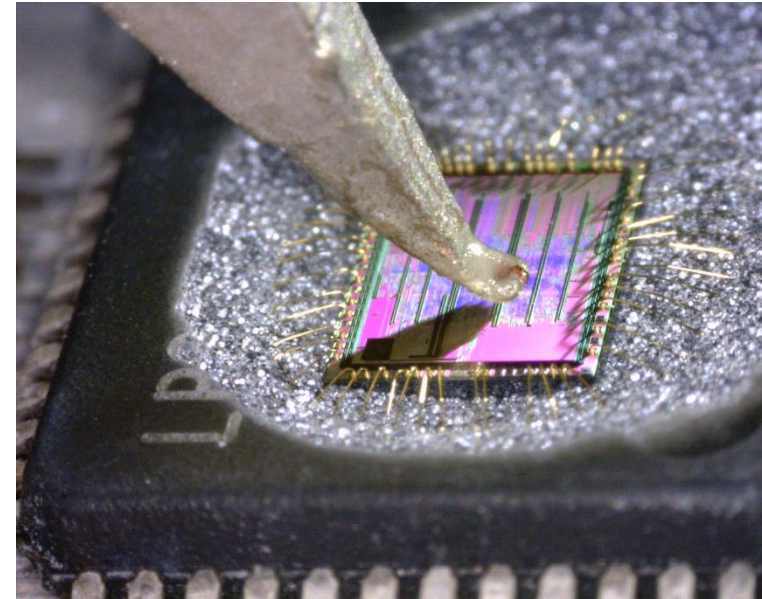


Chair for Security in Information Technology

Department of Electrical Engineering and Information Technology

Main Topics

- IT security for embedded and cyber physical systems for the Internet of Things.
- Unique identities and cryptographic keys for things through Physical Unclonable Functions.
- Protection of cryptographic implementations against hardware attacks.
- New methodologies and tools to implement cryptography securely.
- New attacks on cryptographic implementations, i.e. side channel and fault attacks.



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Fraunhofer AISEC: Fields of Expertise

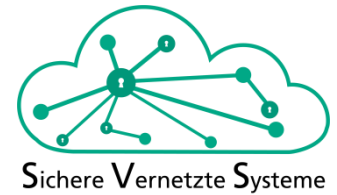
- **Hardware and Embedded Security**
 - Security Modules, Operating Systems, virtualization
- **Cloud, Cyber and Network Security**
 - SDN, anomaly detection, continuous cloud attestation
- **Mobile Security**
 - App security, mobile payment, pentesting & fuzzing
- **Industrial Security, Industrie 4.0**
 - Secure M2M, remote update, Know-how protection, secure gateways
- **Secure System Engineering**
 - Risk Analysis, Secure Development Processes
- **Security Testing: Hardware, Applications, Servers...**



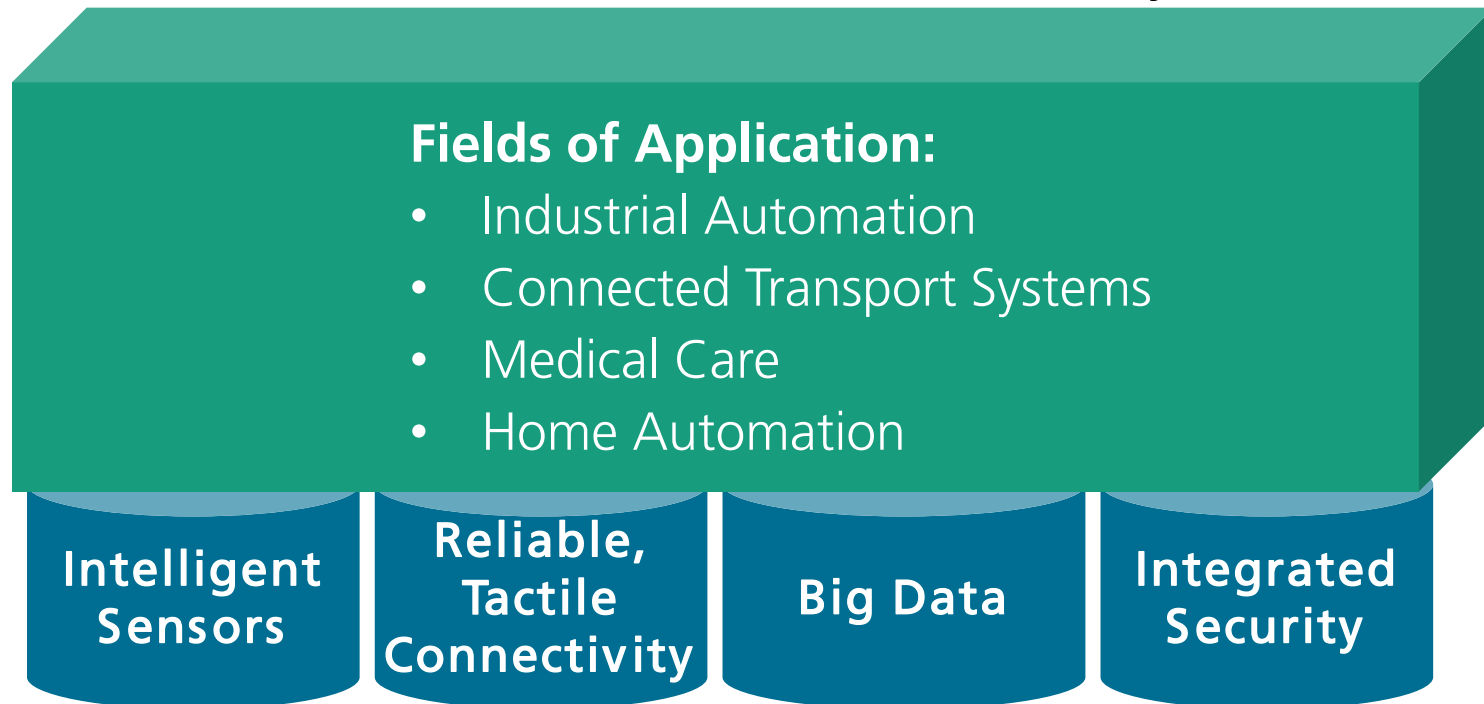
Fraunhofer High Performance Center Secure Connected Systems



Structure of HPC Secure Connected Systems



Transfer of Research Results in Applications
Fraunhofer (AISEC, EMFT, ESK) and Industry Partners



Excellent Research as Base for Applications

TUM + Uni BW

Application Project Industry 4.0

