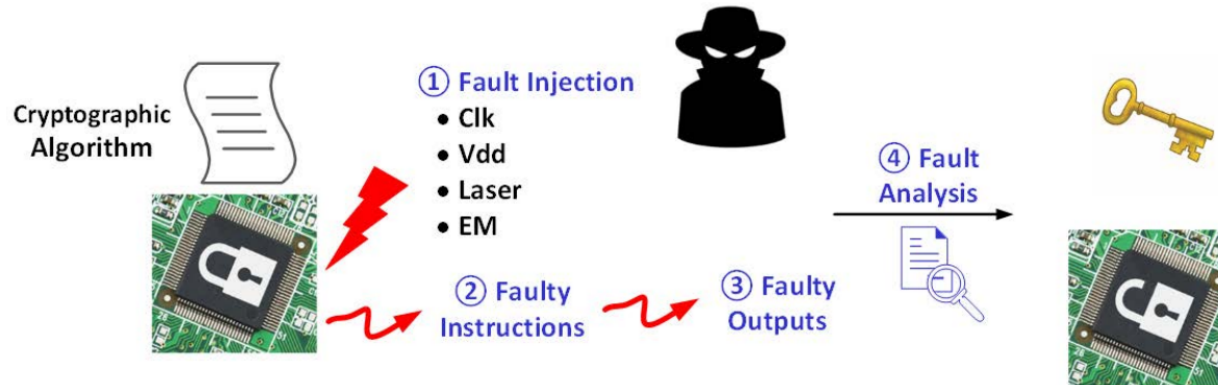


SaTC: STARSS: FAME: Fault-attack Awareness using Microprocessor Enhancements



- **Challenge:** Fault Injection into microprocessor hardware is a powerful hacking tool and a security threat, affecting all forms of cryptography



- Current countermeasures based on redundancy cause overhead in hardware or cripple performance in software
- Redundancy may fail – all components can be attacked
- **Approach:** FAME is a collection of hardware techniques for microprocessors to detect and respond to fault attacks
- **Impact:**
 - Flexible countermeasure enables application-specific fault response
 - ASIC and FPGA Prototype
 - Pub list on rijndael.ece.vt.edu/fame