UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Secure Lightweight Cryptographic Hardware Constructions for Deeply Embedded
Systems
by

Jasmin Kaur

For the Ph.D. degree in Computer Science and Engineering

Lightweight cryptography plays a vital role in securing various resource-constrained embedded systems, including deeply-embedded systems, implantable and wearable medical devices, smart homes, RFID tags, sensor networks, and privacy constrained usage models. However, the security of these systems can be compromised by fault analysis attacks, a type
tle an fhh7.8 (l)-1.7 7 (l)-1.j (e an).c (ck)63.s (ed)-3.8 (o)-3.7 (f)63./(o)-3.(ed)-3.8y (l)-1.7 (e an)..7 (t)-1.7 (an)-3.8 (al)-1.7 (y)-s8