

## Special Issue

# Physical Layer Security and Trust for Legacy Systems and Supply Chain Assurance

### Message from the Guest Editor

Physical-layer security and trust of microelectronic systems is threatened by side-channel signal acquisition attacks, semi-invasive probing and sophisticated reverse engineering process flows. Legacy systems are particularly vulnerable and the large investment in current deployments across medical, military, industrial, and critical infrastructures makes it imperative that these systems are retrofit with countermeasures designed to improve their situational-awareness and resilience to attacks. Techniques that provide a root-of-trust through, for example, secure boot, and/or provide intra-SoC security firewalls between IP blocks would further improve the resilience of both legacy and emerging systems. Similarly, methods that provide assurance of authenticity of chips and systems as they move through the supply chain would also greatly alleviate security concerns related to hidden back door access mechanisms in newly deployed systems. This Special Issue covers these topics as well as extended versions of papers presented at the HOST 2018 (<http://www.hostsymposium.org/>).

### Guest Editor

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### Deadline for manuscript submissions

closed (31 July 2018)



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