Integrated Circuit Authentication: Hardware Trojans and Counterfeit Detection

Mohammad Tehranipoor, Hassan Salmani, Xuehui Zhang

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This book describes techniques to verify the authenticity of integrated circuits (ICs). It focuses on hardware Trojan detection and prevention and counterfeit detection and prevention. The authors discuss a variety of detection schemes and design methodologies for improving Trojan detection techniques, as well as various attempts at developing hardware Trojans in IP cores and ICs. While describing existing Trojan detection methods, the authors also analyze their effectiveness in disclosing various types of Trojans, and demonstrate several architecture-level solutions.

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