

### physical unclonable functions in pdf

Physical Unclonable Functions (PUFs) [5, 6, 7] are innovative primitives to derive secrets from complex physical characteristics of ICs rather than storing the secrets in digi-

### Physical Unclonable Functions for Device Authentication

The PUF can only be accessed via the GetSecret function: Getting a Challenge-Response Pair Now Alice can use a Challenge-Response pair to generate a shared secret with the PUF equipped device. But Alice can't get a Challenge-Response pair in the first place since the PUF never releases responses directly.

### Physical Unclonable Functions and Applications

54 CHAPTER 5. PHYSICAL UNCLONABLE FUNCTIONS (PUFS) 5.3.4 Delay based PUFs Silicon PUFs™, first proposed in [14], are based on uncontrollable process variations during IC manufacture. These variations lead to subtle but measurable differences in signal delay times.

### Unclonable Physical Functions (PUFs) - TU/e

Physical unclonable functions (PUFs) can be used as a cost-effective means to store cryptographic key material in an unclonable way.

### Strong Authentication with Physical Unclonable Functions

A physical unclonable function (sometimes also called physically unclonable function) is a physical entity that is embodied in a physical structure. Today, PUFs are usually implemented in integrated circuits and are typically used in applications with high security requirements.

### Physical unclonable function - Wikipedia

A physical unclonable function (PUF) is a physical object that can take inputs and generate unpredictable outputs; it is unclonable in that the input/output behaviour of a physical copy of one PUF will differ from that of the original one due to some uncontrollable randomness in the copying process.

### On Foundation and Construction of Physical Unclonable

PDF | We investigate the foundations of Physical Unclonable Functions from several perspectives. Firstly, we discuss formal and conceptual issues in the various current definitions of PUFs.

### (PDF) On the Foundations of Physical Unclonable Functions

Novel Physical Unclonable Function with Process and Environmental Variations Xiaoxiao Wang and Mohammad Tehranipoor ECE Dept, University of Connecticut, {xwang,tehrani}@engr.uconn.edu Abstract Physical Unclonable Functions (PUFs) are employed to generate unique signature to be used for integrated circuit

### Novel Physical Unclonable Function with Process and

K.6.5 [Security and Protection]: Physical Security; H.3.0 [Information Storage and Retrieval]: General General Terms Security Keywords ACM proceedings, Physical Unclonable Functions 1. INTRODUCTION Physical Unclonable Functions (PUFs)[1] were originally understood as hardware devices that are hard to characterize and can be uniquely identified" [1].

### A new Definition and Classification of Physical Unclonable

ENHANCING PHYSICAL DEVICE IDENTITY TECHNOLOGY THROUGH PHYSICAL UNCLONABLE

FUNCTIONS Michael Orshansky, 2015 UT CID Report #1514 This UT CID research was supported in part by the following organizations:!

### **ENHANCING PHYSICAL DEVICE IDENTITY TECHNOLOGY THROUGH**

physical unclonable function (PUF); public model PUFs; ring oscillator; SRAM; unclonable I.

INTRODUCTION Mobile and embedded devices are becoming ubiquitous, interconnected platforms for everyday tasks. Many such tasks require the mobile device to securely authenticate and be authenticated by another party and/or securely handle private information.

### **INVITED PAPER PhysicalUnclonableFunctions andApplications**

INVITED PAPER Physical Unclonable Functions and Applications: A Tutorial This paper is a tutorial on ongoing work in physical-disorder-based security, security analysis, and implementation choices.

### **Physical Unclonable Functions and Applications: A Tutorial**

Physical Unclonable Functions (PUF) Basics. ... (TPM), followed by physical unclonable functin (PUF), and FPGA-based system design. We conclude with a short discussion on the roles that hardware play in security and trust. FPGA Implementation of Crypto 13:44.

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