



# TRUDEVICE Workshop 2014

## Test and Fault Tolerance for Secure Devices

May 29<sup>th</sup>-30<sup>th</sup>, Heinz Nixdorf Museums Forum  
Paderborn (Germany)

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### Preliminary Program

#### Thursday - May 29

**16:00-16:15**    **Welcome address**

**16:15-17:00**    **Keynote**

Do you trust your chip?  
*Ozgur Sinanoglu (NY University Abu Dhabi, UAE)*

This keynote will address trust issues and their connection with test and reliability. It will focus on the distributed design and manufacturing flow and the security vulnerabilities it creates. Counterfeiting, trojans, reverse engineering, IP piracy, and overproduction are the addressed threats. Finally, Dr Ozgur Sinanoglu, will emphasize the need to expand efforts on Design-for-Trust, an emerging IC design methodology.

**17:00-17:15**    **Coffee Break**

**17:15-18:15**    **Hardware Trojans**

17:15 Detecting Possible Locations for Hardware Trojans by Identifying Untestable Faults  
*Cristiana Bolchini, Luca Cassano*

17:45 Stealth Assessment of Hardware Trojans in a simple Processor  
*I. Nikopoulos, A. Milidonis, I. Voyiatzis, C. Sgouropoulou, C. Efstathiou*

#### Friday - May 30

**9:00-10:30**    **Attacks**

9:00 Power Supply Glitches Accuracy Analysis  
*Loïc Zussa, Jean-Max Dutertre, Jessy Clediere, Bruno Robisson*

9:30 Simulating Laser Effects on ICs, from Physical Level to Gate Level: a Comprehensive Approach  
*F. Lu, G. Di Natale, M.-L. Flottes, B. Rouzeyre, G. Hubert*

10:00 FPGA Emulation of Laser Attacks Against Secure Deep Submicron Integrated Circuits  
*A. Papadimitriou, D. Hély, V. Berouille, P. Maistri, R. Leveugle*

**10:30-10:50**    **Coffee Break**

**10:50-12:20**    **Countermeasures**

10:50 A Low Area Probing Detector for Security ICs  
*Michael Weiner, Salvador Manich, Georg Sigl*

11:20 Fault Attacks on Two Software Countermeasures  
*Nicolas Moro, Karine Heydemann, Amine Dehbaoui, Bruno Robisson, Emmanuelle Encrenaz*

11:50 Error Recovery Mechanism Using Dynamic Partial Reconfiguration  
*Anton Biasizzo, Franc Novak*

**12:20**            **Lunch**