ZHENG YUE

GENERAL INFORMATION

Nationality: Chinese
Date of Birth: 05-Oct.-1992
Place of Birth: Zhejiang, China
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EDUCATION

PhD, School of Electrical and Electronic Engineering — **Aug. 2015 - Present**
Nanyang Technological University (NTU), Singapore
CGPA: 4.63/5

Bachelor, School of Communication Engineering — **Aug. 2011 - Jul. 2015**
Shanghai University (SHU), Shanghai, China
CGPA: 3.87/4 (Ranking: 1/368)

RESEARCH

Hardware security, Physical Unclonable Functions
Skills: Matlab, Cadence, Latex, FPGA, Verilog, Python

PUBLICATIONS

- C.H. Chang, **Y. Zheng**, and L. Zhang, "A retrospective and a look forward: Fifteen years of physical unclonable function advancement," *IEEE Circuits and Syst. Magazine*, vol. 17, DOI 10.1109/MCAS.2017.2713305, no. 3, pp. 32–62, 2017**.**
- **Y. Zheng,** Y. Cao, and C.H。 Chang. "A new event-driven dynamic vision sensor based physical unclonable function for camera authentication in reactive monitoring system," in *Proc. Hardware-Oriented Security and Trust*, DOI 10.1109/AsianHOST.2016.7835551, Yilan, Taiwan, Dec. 2016.
- **Y. Zheng**, Y. Cao, and C.H. Chang, "Facial biohashing based User-Device physical unclonable function for bring your own device system (Invited Paper)," in *Proc. IEEE Int. Conf. on Consumer Electronics* (*ICCE 2018*), DOI 10.1109/ICCE.2018.8326074, Las Vegas, US, Jan. 2018.
- **Y. Zheng**, S. S. Dhabu, and C.-H. Chang, "Securing IoT monitoring device using PUF and physical layer authentication," in *Proc. 2018 IEEE Int. Symp. Circuits and Syst.* (*ISCAS*), DOI 10.1109/ISCAS.2018.8351844, Florence, May. 2018.
- S. S. Dhabu, **Y. Zheng**, and C.-H. Chang, "Active IC Metering of Digital Signal Processing Subsystem with Two-Tier Activation for Secure Split Test," in *Proc. 2018 IEEE Int. Symp. Circuits and Syst*. (*ISCAS*), DOI 10.1109/ISCAS.2018.8351390, Florence, May. 2018.
- C. Q. Liu, **Y. Zheng**, C.H. Chang, "A new write-contention based dual-port SRAM PUF with multiple response bits per cell," in *Proc. IEEE Int. Symp. Circuits and Systems*. (*ISCAS* 2017), DOI 10.1109/ISCAS.2017.8050700, Baltimore, USA, May. 2017.
- Y. Cao, C.H Chang, **Y. Zheng,** X Zhao. " An energy-efficient true random number generator based on current starved ring oscillators." *Proc. Hardware-Oriented Security and Trust* (*AsianHOST*), DOI 10.1109/AsianHOST.2017.8353992, Beijing, China, Oct. 2016
- **Y. Zheng**, Y. Cao and C.H. Chang, "UDhashing: Physical unclonable function based User-Device hash for endpoint authentication," *IEEE Trans. Ind. Electron.*(under ***Major revision***).

AWARDS

- **(Singapore)** Three Minute Thesis competition - **People's Choice Award** — **Aug. 2017**
  Title: Give your device a fingerprint – the magic of physical unclonable function
- **(NTU)** Three Minute Thesis competition - **People's Choice Award** — **Jul. 2017**
  Title: Give your device a fingerprint.