

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 Nanyang Technological University (NTU), Singapore CGPA: 4.63/5	Aug. 2015 - Present
Bachelor , School of Communication Engineering Shanghai University (SHU), Shanghai, China CGPA: 3.87/4 (Ranking: 1/368)	Aug. 2011 - Jul. 2015

RESEARCH

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

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 bihashing 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

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