Publication List

Journals:

[1] **Y. Zheng**, Y. Cao and C.H. Chang, "A PUF-based data-device hash for tampered image detection and source camera identification", *IEEE Trans. Inf. Forensics. Security*, Apr. 2019. **(Under major revision).**

[2] **Y. Zheng**, Y. Cao and C.H. Chang, "UDhashing: Physical unclonable function based user-device hash for endpoint authentication", *IEEE Trans. Industrial Electronics*, Jan 2019.

[3] A. Cui, C.H. Chang, W. Zhou, **Y. Zheng**, "A New PUF Based Lock and Key Solution for Secure In-field Testing of Cryptographic Chips," *IEEE Trans. Emerging Topics in Computing*, Mar. 2019.

Magazine:

[1] 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, no. 3, pp. 32–62, 2017.

Conferences:

[1] **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*, Yilan, Taiwan, Dec. 2016.

[2] **Y. Zheng**, Y. Cao, and C.H. Chang, "Facial biohashing based User-Device physical unclonable function for bring your own device system (Invited Paper, also featured in IEEE Xplore Innovation Spotlight, titled "Can BYOD be as Secure as Company-Owned Devices" on August 6, 2018, URL: https://innovate.ieee.org/innovation-spotlight/biohashing-physical-unclonable-function-byod-authentication-scheme/)," in *Proc. IEEE Int. Conf. Consumer Electronics* (*ICCE* 2018), Las Vegas, US, Jan. 2018.

[3] **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*), Florence, May. 2018.

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[5] 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 Syst*. (*ISCAS*), Baltimore, USA, May. 2017

[6] 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*), Beijing, China, Oct. 2016.

[7] B. Wang, X. Zhao, **Y. Zheng**, C.H Chang, "An in-pixel gain amplifier based event-driven physical unclonable function for CMOS dynamic vision sensors." in *Proc. 2018 IEEE Int. Symp. Circuits and Syst.* (*ISCAS*), Hokkaiddo, Japan, May. 2018.