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# MENGFEI REN

Assistant Professor • Electrical & Computer Engineering • University of Alabama in Huntsville <a href="mengfei.ren@uah.edu">mengfei.ren@uah.edu</a> • <a href="https://mengfei-ren.github.io/">https://mengfei-ren.github.io/</a>

ED	UCATION	
University of Texas, Arlington Ph.D. in Computer Science		Aug. 2017 – Aug. 2023
	sertation: Fuzz Testing of Zigbee Protocol Implementation visors: Dr. Yu Lei and Dr. Jiang Ming	
University of Texas, Arlington M.S in Computer Science		Aug. 2011 – Dec. 2013
China University of Petroleum  B.S in Computer Science and Technology		Sept. 2007 – Jul. 2011
PEER-REVIEWED PUBLICATIONS		
P6	Low-entropy Packed Binary Detection via Accurate Hardware Events Profiling	HOST '25
	Erika Leal, <b>Mengfei Ren</b> , Sijia Shi, Jiang Ming	
	In Proceedings of the 2025 IEEE International Symposium on Hardware Oriented Security and Trust. San Jose, CA, USA. May, 2025. (Just Accepted)	
P5	An AI-based Security Analysis Solution for DevSecOps	ISICN '25
	Abdullah Al Noman, Samson Olugbenga Idowu, Rolly Davany Mougoue Kakanou,	
	Paolo Ciancarini, Mengfei Ren	
	In Proceedings of the 2025 International Symposium on Intelligent Computing and	
	Networking. San Juan, Puerto Rico. 2025. (Just Accepted)	
P4	Intelligent Zigbee Protocol Fuzzing via Constraint-Field Dependency Inference	ESORICS '23 Acceptance Rate: 19.5%
	Mengfei Ren, Haotian Zhang, Xiaolei Ren, Jiang Ming, Yu Lei	Accepiance Raie. 19.5/0
	In <i>Proceedings of the 28<sup>th</sup> European Symposium of Research in Computer Security.</i> The Hague, The Netherland. 2023.	
Р3	Security Analysis of Zigbee Protocol Implementation via Device-agnostic Fuzzing	DTRAP Journal '22
13	Mengfei Ren, Xiaolei Ren, Huadong Feng, Jiang Ming, Yu Lei	DIMI Journal 22
	In ACM Digital Threats: Research and Practice. 2022.	
<b>P2</b>	One Size Does Not Fit All: Security Hardening of MIPS Embedded Systems	ASPLOS '22
	via Static Binary Debloating for Shared Libraries	Acceptance Rate: 20.1%
	Haotian Zhang, Mengfei Ren, Yu Lei, Jiang Ming	
	In Proceedings of the 27 <sup>th</sup> International Conference on Architectural Support for	
	Programming Languages and Operating Systems, Lausanne, Switzerland. 2022.	
	ACM Artifacts Evaluation Badges: Functional, Available, Reproduced	
<b>P1</b>	Z-Fuzzer: Device-agnostic Fuzzing of Zigbee Protocol Implementation	WiSec '21
	Mengfei Ren, Xiaolei Ren, Huadong Feng, Jiang Ming, Yu Lei	Acceptance Rate: 28.1%
	In Proceedings of the 14 <sup>th</sup> ACM Conference on Security and Privacy in Wireless	
	and Mobile Networks. Abu Dhabi, UAE (Virtual). 2021.	
	ACM Artifacts Evaluation Badges: Functional, Available, Reproduced	
	0-day Vulnerabilities Detected:	

<u>CVE-2020-27890, CVE-2020-27891, CVE-2020-27892</u>

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## SUBMITTED & UNDER REVIEW

- S3 Fuzzing Zigbee Protocol Implementation with Combinatorial Testing
- S2 Revisiting Optimization-Resilience Claims in Binary Diffing: Insights from Peephole Optimization Analysis
- S1 Principal Component Analysis with Ordered Weighted Average Operator for Feature Extraction

## TEACHING EXPERIENCE

#### University of Alabama in Huntsville

CPE 212 Fundamental of Software Engineering

CPE 645/CS 685 Applied Cryptography

### **University of Texas at Arlington**

CSE 4380/5380 Information Security I Laboratory

#### **WORKING EXPERIENCE**

University of Alabama in Huntsville (Huntsville, AL) Assistant Professor in ECE Department	Aug. 2023 – Present
Toyota North America (Plano, TX)  Intern – Vehicle Security Testing	May. 2021 – Aug. 2021
Secureworks (Atlanta, GA) Software Dev Engineer	Jan. 2015 – Jul. 2016
HORNORS AND REWARDS	
UA Huntsville New Faculty Research Program Award	2024
UT Arlington 2023 Summer Dissertation Fellowship	2023
<b>USENIX Security Symposium Diversity Grant</b>	2022
PROPOSALS UNDER REVIEW	
NSF SHF Collaborative: Incorrectness Identification in Java Decompilation	2024
NSF Mid-scale RI-1Collaborative: National Aerospace Cyber Range	2024
PROFESSIONAL SERVICES	
Technical Program Committees:	
IEEE SoutheastCon	2024/2025
Peer Reviewers	
The Journal of Systems & Software (JSS)	2024/2025