

Yier Jin

Endowed IoT Term Professor
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RESEARCH INTERESTS

- Hardware and Circuit Security
- Internet of Things (IoT) and Cyber-Physical System (CPS) Design
- Functional programming and formal verification for trusted IP cores
- Trusted and resilient high-performance computing platforms
- Hardware-software co-design for system level security and protection
- Internet of Things (IoT) security

EDUCATION

Yale University, New Haven, Connecticut, USA
Ph.D. in Electrical Engineering, December 2012
Advisor: Yiorgos Makris
Thesis Title: “Trusted Integrated Circuits”

Zhejiang University, Hangzhou, China
M.S. in Electrical Engineering, June 2007
Advisors: Shiju Li, Xiaolang Yan and Haibin Shen
Thesis Title: “High Performance Finite Field Multipliers”
B.S. in Electrical Engineering, June 2005
Honors Graduate

PROFESSIONAL POSITIONS

Associate Professor 2017 - Present
Department of Electrical and Computer Engineering
University of Florida

Endowed IoT Term Professor and Academic Director 2017 - Present
The Warren B. Nelms Institute for the Connected World
Herbert Wertheim College of Engineering, University of Florida

Member 2019 - Present
Curriculum Sub-committee
State University System of Florida (SUSF) Cybersecurity Advisory Council

Associate Director 2019 - Present
National MicroElectronics Security Training Program (MEST) Center
Nimbus-University of Florida-Ohio State University

Distinguished Lecturer 2019 - Present
IEEE Council on Electronic Design Automation (CEDA)

Assistant Professor 2013 - 2017
Department of Electrical Engineering and Computer Science
University of Central Florida

Associate Partner 2014 - 2017
Intel Collaborative Research Institute for Secure Computing

Cyber-Physical System Security Subcommittee Chair 2015 - 2016
IEEE Technical Committee on Cybernetics for Cyber-Physical Systems (CCPS)

Member 2015 - Present
Florida Institute for Cyber Security (FICS) at the University of Florida

Member 2019 - Present
State University System of Florida (SUSF) Cybersecurity Advisory Council

Member 2016 - Present
VLSI Systems and Applications Technical Committee (VSA-TC),
IEEE Circuits and Systems Society (CASS)

Visiting Faculty Summer 2016, Summer 2017
AFRL Visiting Faculty Research Program

HONORS DISTINCTIONS

- **International Educator of the Year (Junior Faculty)**, Herbert Wertheim College of Engineering, University of Florida, 2019
- **Distinguished Lecturer**, IEEE Council on Electronic Design Automation (CEDA), 2019
- **Best Paper Award**, Design, Automation and Test in Europe Conference and Exhibition (DATE), 2019
- **Best Paper Award Nomination**, Design, Automation and Test in Europe Conference and Exhibition (DATE), 2019
- **Young Investigator Award**, Office of Naval Research (ONR), 2019
- **Best Paper Award**, ACM Great Lakes Symposium on VLSI (GLSVLSI), 2018
- **ACM TODAES Best Paper**, ACM Transactions on Design Automation of Electronic Systems (TODAES), 2018
- **Best Paper Award Nomination**, Asian and South Pacific Design Automation Conference (ASP-DAC), 2018
- **Best Paper Award Nomination**, International Conference on Computer Aided Design (ICCAD), 2017
- **Endowed IoT Term Professorship**, University of Florida, 2017 - Present
- **Best Paper Award**, IEEE International Symposium on Hardware Oriented Security and Trust (HOST), 2017
- **Outstanding New Faculty Award**, ACM's Special Interest Group on Design Automation (SIGDA), 2017
- ACM Computing Reviews Notable Computing Books and Articles 2016, Hardware Category
- **Early CAREER Award**, Department of Energy (DoE), 2016
- **Best Paper Award**, Asian and South Pacific Design Automation Conference (ASP-DAC), 2016
- **First Place Award** (2011, 2016), **Second Place Award** (2008, 2013, 2014, 2015), **Third Place Award** (2009), New York University Cyber Security Awareness Week (CSAW) - Embedded System Challenge
- **Young Investigator Grant**, Southeastern Center for Electrical Engineering Education (SCEEE), 2015
- **Second Place Award**, CyberSEED IoT Security Challenge, University of Connecticut, 2015
- **Best Paper Award**, Design Automation Conference (DAC), 2015
- Travel Award, NSF-SRC-SIGDA-DAC Design Automation Summer School, 2009
- Honor Graduate, Zhejiang Provincial Institution of Higher Learning, The Educational Office of Zhejiang Province, China, 2005

- Excellent Graduate Award, Zhejiang University, 2005
- Undergraduate Scholarship, Zhejiang University, 2001–2005

PUBLICATIONS

A. BOOK CHAPTER

1. Per Larsen, and Ahmad-Reza Sadeghi (Editors), “The Continuing Arms Race - Code-Reuse Attacks and defenses,” Morgan & Claypool, 2018 (**Yier Jin**, Dean Sullivan, Orlando Arias, Ahmad-Reza Sadeghi, and Lucas Davi, “Chapter 7. Hardware Control Flow Integrity”)
2. Hiroto Yasuura, Chong-Min Kyung, Yongpan Liu, and Youn-Long Lin (Editors), “Smart Sensors at the IoT Frontier,” Springer, 2017 (Orlando Arias, Kelvin Ly, and **Yier Jin**, “Security and Privacy in IoT Era”)
3. S. Bhunia, S. Ray, and S. Sur-Kolay (Editors), “Fundamentals of IP and SoC Security - Design, Verification and Debug,” Springer, 2017 (Xiaolong Guo, Raj Gautam Dutta, and **Yier Jin**, “Chapter 10. IP Trust Validation Using Proof-Carrying Hardware”)
4. Prabhat Mishra, Swarup Bhunia, and Mark Tehranipoor (Editors), “Hardware IP Security and Trust,” Springer, 2017 (Raj Gautam Dutta, Xiaolong Guo and **Yier Jin**, “Chapter 4. IP Trust: The Problem and Design/Validation-Based Solution”)
5. Chip-Hong Chang, Miodrag Potkonjak (Editors), “Secure System Design and Trustable Computing,” Springer, 2016 (**Yier Jin**, Dimitry Maliuk, Yiorogs Makris, “Chapter 7. Hardware Trojan Detection in Analog/RF Integrated Circuits”)
6. Mark Tehranipoor, Cliff Wang (Editors), “Introduction to Hardware Security and Trust,” Springer, 2011 (**Yier Jin**, Eric Love, Yiorgos Makris, “Chapter 16. Design for Hardware Trust”)

B. JOURNAL PUBLICATIONS

1. Kaveh Shamsi, Meng Li, Kenneth Plaks, Saverio Fazzari, David Z. Pan, and **Yier Jin**, “IP Protection and Supply Chain Security through Logic Obfuscation: A Systematic Overview,” *ACM Transactions on Design Automation of Electronic Systems (TODAES)*, vol. 24, no. 6, pp. 65:1-65:36, 2019.
2. Kaveh Shamsi, Travis Meade, Meng Li, David Pan, and **Yier Jin**, “On the Approximation Resiliency of Logic Locking and IC Camouflaging Schemes,” *IEEE Transactions on Information Forensics and Security (TIFS)*, vol. 14, no. 2, pp. 347-359, 2019.
3. Meng Li, Kaveh Shamsi, Travis Meade, Zheng Zhao, Bei Yu, **Yier Jin**, and David Z. Pan, “Provably Secure Camouflaging Strategy for IC Protection,” *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, vol. 38, no. 8, pp. 1399-1412, 2019.
4. Jiaji He, Xiaolong Guo, Travis Meade, Raj Gautam Dutta, Yiqiang Zhao, **Yier Jin**, “SoC interconnection protection through formal verification,” *Integration, the VLSI Journal*, vol. 64, pp. 143-151, 2019.
5. Yumin Hou, Hu He, Kaveh Shamsi, Yier Jin, Dong Wu, and Huaqiang Wu, “On-Chip Analog Trojan Detection Framework for Microprocessor Trustworthiness,” *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, vol. 38, no. 10, pp. 1820-1830, 2019.
6. Travis Meade, Kaveh Shamsi, Thao Le, Jia Di, Shaojie Zhang, and **Yier Jin**, “The Old Frontier of Reverse Engineering: Netlist Partitioning,” *Journal of hardware and Systems Security (HASS)*, vol. 2, no. 3, pp. 201-213, 2018.
7. Sarah Amir, Bicky Shakya, Xiaolin Xu, **Yier Jin**, Swarup Bhunia, Mark Tehranipoor, and Domenic Forte, “Development and Evaluation of Hardware Obfuscation Benchmarks,” *Journal of Hardware and Systems Security (HASS)*, vol. 2, no. 2, pp. 142-161, 2018.

8. Kejun Chen, Shuai Zhang, Zhikang Li, Yi Zhang, Qingqu Deng, Sandip Ray, and **Yier Jin**, "Internet-of-Things Security and Vulnerabilities: Taxonomy, Challenges, and Practice," *Journal of Hardware and Systems Security (HASS)*, vol. 2, no. 2, pp. 97-110, 2018.
9. Xiaolong Guo, Raj Gautam Dutta, Prabhat Mishra, and **Yier Jin**, "Automatic Code Converter Enhanced PCH Framework for SoC Trust Verification," *IEEE Transactions on Very Large Scale Integration System (TVLSI)*, vol. 25, no. 12, pp. 3390-3400, 2017.
10. Juan Wang, Hong Zhi, Yuhang Zhang, and **Yier Jin**, "Enabling Security-enhanced Attestation With Intel SGX for Remote Terminal and IoT," *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*, vol. 37, no. 1, pp. 88-96, 2018.
11. Jiaji He, Yiqiang Zhao, Xiaolong Guo, **Yier Jin**, "Hardware Trojan Detection through Chip-Free Electromagnetic Side-Channel Statistical Analysis," *IEEE Transactions on Very Large Scale Integration System (TVLSI)*, vol. 25, no. 10, pp. 2939-2948, 2017.
12. **Yier Jin**, Xiaolong Guo, Raj Gautam Dutta, Mohammad-Mahdi Bidmeshki, and Yiorgos Makris, "Data Secrecy Protection through Information Flow Tracking in Proof-Carrying Hardware IP (Part I: Framework Fundamentals)," *IEEE Transactions on Information Forensics and Security (TIFS)*, vol. 12, no. 10, pp. 2416-2429, 2017.
13. Mohammad-Mahdi Bidmeshki, Xiaolong Guo, Raj Gautam Dutta, **Yier Jin**, and Yiorgos Makris, "Data Secrecy Protection through Information Flow Tracking in Proof-Carrying Hardware IP (Part II: Framework Automation)," *IEEE Transactions on Information Forensics and Security (TIFS)*, vol. 12, no. 10, pp. 2430-2443, 2017.
14. Yu Liu, **Yier Jin**, Aria Nosratinia, and Yiorgos Makris, "Silicon Demonstration of Hardware Trojan Design and Detection in Wireless Cryptographic ICs," *IEEE Transactions on Very Large Scale Integration Systems (TVLSI)*, vol. 25, no. 4, pp. 1506-1519, 2017.
15. Jacob Wurm, **Yier Jin**, Yang Liu, Shiyang Hu, Kenneth Heffner, Fahim Rahman, and Mark Tehranipoor, "Introduction to Cyber-Physical System Security: A Cross-Layer Perspective," *IEEE Transactions on Multi-Scale Computing Systems (TMSCS)*, vol. 3, no. 3, pp. 215-227, 2017.
16. Travis Meade, Shaojie Zhang, and **Yier Jin**, "IP Protection Through Gate-Level Netlist Security Enhancement," *Integration, the VLSI Journal*, vol. 58, pp. 563-570, 2017.
17. Xiaolong Guo, Raj Gautam Dutta, and **Yier Jin**, "Eliminating the Hardware-Software Boundary: A Proof-Carrying Approach for Trust Evaluation on Computer Systems," *IEEE Transactions on Information Forensics and Security (TIFS)*, vol. 12, no. 2, pp. 405-417, 2017.
18. Yu Bi, Kaveh Shamsi, Jiann-Shiun Yuan, **Yier Jin**, Michael Niemier, and X. Sharon Hu, "Tunnel FET Current Mode Logic for DPA-Resilient Circuit Designs," *IEEE Transactions on Emerging Topics in Computing (TETC)*, vol. 5, no. 3, pp. 340-352, 2017.
19. Kan Xiao, Domenic Forte, **Yier Jin**, Ramesh Karri, Swarup Bhunia, and M. Tehranipoor, "Hardware Trojans: Lessons Learned After One Decade of Research," *ACM Transactions on Design Automation of Electronic Systems (TODAES)*, vol. 22, no. 1, pp. 6:1-6:23, 2016. **2018 ACM TODAES Best Paper**
20. Sandip Ray, **Yier Jin**, and Arijit Raychowdhury, "The Changing Computing Paradigm with Internet of Things: A Tutorial Introduction," *IEEE Design & Test (D&T)*, vol. 33, issue. 2, pp. 76-96, 2016.

21. Yu Bi, Kaveh Shamsi, Jiann-Shiun Yuan, Pierre-Emmanuel Gaillardon, Giovanni De Micheli, Xunzhao Yin, X. Sharon Hu, Michael Niemier, and **Yier Jin**, “Emerging Technology based Design of Primitives for Hardware Security,” *ACM Journal on Emerging Technologies in Computing Systems (JETC)*, vol. 13, issue 1, pp. 3:1-3:19, 2016.
22. Orlando Arias, Jacob Wurm, Khoa Hoang, and **Yier Jin**, “Privacy and Security in Internet of Things and Wearable Devices,” *IEEE Transactions on Multi-Scale Computing Systems (TMSCS)*, vol. 1, issue 2, pp. 99-109, 2015.
23. **Yier Jin**, “Introduction to Hardware Security,” *Electronics*, vol. 4, issue. 4, pp. 763-784, 2015.
24. Yu Bi, Jiann-Shiun Yuan, and **Yier Jin**, “Beyond the Interconnections: Split Manufacturing in RF Designs,” *Electronics*, vol. 4, issue. 3, pp. 541-564, 2015.
25. Daniela Oliveira, Nicholas Wetzels, Max Bucci, Jesus Navarro, Dean Sullivan, and **Yier Jin**, “Hardware-Software Collaboration for Secure Coexistence with Kernel Extensions,” *ACM SIGAPP Applied Computing Review (ACR)*, vol. 14, no. 3, pp. 22-35, September 2014.
26. Eric Love, **Yier Jin**, and Yiorgos Makris, “Proof-Carrying Hardware Intellectual Property: A Pathway to Trusted Module Acquisition,” *IEEE Transactions on Information Forensics and Security (TIFS)*, vol. 7, no. 1, pp. 25-40, January 2012.
27. **Yier Jin**, and Yiorgos Makris, “Hardware Trojans in wireless cryptographic integrated circuits,” *IEEE Design & Test on Computers (D&T)*, vol. 27, pp. 10-25, 2010.
28. Haibin Shen, and **Yier Jin**, “Low Complexity Bit Parallel Multiplier for GF(2^m) Generated by Equally-Spaced Trinomials,” *Information Processing Letters (IPL)*, vol. 107, no. 6, 2008, pp. 211-215.
29. **Yier Jin**, Haibin Shen, Huafeng Chen, and Xiaolang Yan, “Research of Fast Modular Multiplier for a Class of Finite Fields,” *Journal of Electronics (China)*, vol. 25, no. 4, 2008, pp. 482-487.

C. NEWSLETTER

1. **Yier Jin**, “Hardware Security: Past, Current, and Future,” *VLSI Circuits and Systems Letter*, vol. 1, no. 1, pp. 11-15, April 2015. (invited)
2. Dean Sullivan, **Yier Jin**, “What is Hardware-based Cybersecurity?” *ACM/SIGDA E-Newsletter*, vol. 45, no. 4, April 2015. (invited)

D. CONFERENCE PROCEEDINGS

1. Tzungyu Tsai, Kaichen Yang, Tsung-Yi Ho, and **Yier Jin**, “Robust Adversarial Objects against Deep Learning Models,” *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020. (to appear)
2. Kaichen Yang, Tzungyu Tsai, Honggang Yu, Tsung-Yi Ho, and **Yier Jin**, “Beyond Digital Domain: Fooling Deep learning Based Recognition System in Physical World,” *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020. (to appear)
3. Orlando Arias, Dean Sullivan, Haoqi Shan, and **Yier Jin**, “LAHEL: Lightweight Attestation Hardening Embedded Devices using Macrocells,” *Hardware-Oriented Security and Trust (HOST)*, 2020. (to appear)
4. Kuei-Huan Chang, Po-Hao Huang, Honggang Yu, **Yier Jin**, and Ting-Chi Wang, “Audio Adversarial Examples Generation with Recurrent Neural Networks,” *25th Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2020. (to appear)
5. Jiaji He, Haocheng Ma, Xiaolong Guo, Yiqiang Zhao, **Yier Jin**, “Design for EM Side-Channel Security through Quantitative Assessment of RTL Implementations,”

- 25th Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2020. (to appear)
6. Haocheng Ma, Jiaji He, Yanjiang Liu, Yiqiang Zhao, and **Yier Jin**, “CAD4EM-P: Security-Driven Placement Tools for Electromagnetic Side Channel Protection,” *Asian Hardware Oriented Security and Trust (AsianHOST)*, 2019.
 7. Jason Portillo, Travis Meade, John Hacker, Shaojie Zhang and **Yier Jin**, “RERTL: Finite State Transducer Logic Recovery at Register Transfer Level,” *Asian Hardware Oriented Security and Trust (AsianHOST)*, 2019.
 8. Kejun Chen, Qingxu Deng, Yumin Hou, **Yier Jin**, and Xiaolong Guo, “Hardware and Software Co-Verification from Security Perspective,” *20th International Workshop on Microprocessor and SOC Test and Verification (MTV)*, 2019.
 9. Kaveh Shamsi, David Z. Pan, and **Yier Jin**, “IcySAT: Improved SAT-based Attacks on Cyclic Locked Circuits,” *International Conference On Computer Aided Design (ICCAD)*, 2019.
 10. **Yier Jin**, “Towards Hardware-Assisted Security for IoT Systems (Invited),” *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, 2019.
 11. Xiaolong Guo, Raj Gautam Dutta, Jiaji He, Mark Tehranipoor, and **Yier Jin**, “QIF-Verilog: Quantitative Information-Flow based Hardware Description Languages for Pre-Silicon Security Assessment,” *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2019.
 12. Kaveh Shamsi, David Z. Pan, and **Yier Jin**, “On the Impossibility of Approximation-Resilient Circuit Locking,” *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2019.
 13. Raj Gautam Dutta, Teng Zhang, and **Yier Jin**, “Resilient Distributed Filter for State Estimation of Cyber-Physical Systems Under Attack,” *American Control Conference (ACC)*, 2019, pp. 5141-5147.
 14. Kaveh Shamsi and **Yier Jin**, “Programmable Via based Layout Level Design Obfuscation for Circuit Protection,” *Government Microcircuit Applications and Critical Technology Conference (GOMACTech)*, 2019.
 15. Honggang Yu, Kaichen Yang, and **Yier Jin**, “Deep Learning Application Attacks through Feature Manipulations,” *Government Microcircuit Applications and Critical Technology Conference (GOMACTech)*, 2019.
 16. Miao He, Jungmin Park, Adib Nahiyani, Aposto Vassilev, **Yier Jin**, Mark Tehranipoor, “RTL-PSC: Automated Power Side-Channel Leakage Assessment at Register-Transfer Level,” in *37th IEEE VLSI Test Symposium (VTS)*, 2019.
 17. Kaveh Shamsi, Meng Li, David Pan, and **Yier Jin**, “KC2: Key-Condition Crunching for Fast Sequential Circuit Deobfuscation,” *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, 2019, pp. 534-539. (**Best Paper Award Nomination**)
 18. Xiaolong Guo, Huifeng Zhu, **Yier Jin**, and Xuan Zhang, “When Capacitors Attack: Formal Method Driven Design and Detection of Charge-Domain Trojans,” *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, 2019, pp. 1706-1711. (**Best Paper Award**)
 19. Travis Meade, Jason Portillo, Shaojie Zhang, and **Yier Jin**, “NETA: When IP Fails, Secrets Leak,” *24th Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2019.
 20. Raj Gautam Dutta, Feng Yu, Teng Zhang, Yaodan Hu, and **Yier Jin**, “Security for Safety: A Path Toward Building Trusted Autonomous Vehicles,” *International Conference On Computer Aided Design (ICCAD)*, 2018.
 21. Meng Li, Kaveh Shamsi, **Yier Jin**, David Pan, “TimingSAT: Decamouflaging Timing-based Logic Obfuscation,” *International Test Conference (ITC)*, 2018.

22. Thao Le, Lucas Weaver, Jia Di, Shaojie Zhang, and **Yier Jin**, “Hardware Trojan Detection and Functionality Determination for Soft IPs,” *International Verification and Security Workshop (IVSW)*, 2018.
23. Jungmin Park, Xiaolin Xu, Domenic Forte, **Yier Jin**, and Mark Tehranipoor, “Power-based Side-Channel Instruction-level Disassembler,” *Design Automation Conference (DAC)*, 2018.
24. Kaveh Shamsi, Meng Li, David Pan, and **Yier Jin**, “Cross-Lock: Dense Layout-Level Interconnect Locking using Cross-bar Architectures,” *ACM Great Lakes Symposium on VLSI (GLSVLSI)*, 2018. **Best Paper Award**
25. Yumin Hou, Hu He, Kaveh Shamsi, **Yier Jin**, Dong Wu, Huaqiang Wu, “R2D2: Runtime Reassurance and Detection of A2 Trojan,” *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2018.
26. Tao Liu, Wujie Wen, and **Yier Jin**, “SIN2: Stealth Infection on Neural Network - A Low-cost Agile Neural Trojan Attack Methodology,” *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2018.
27. Jiaji He, Xiaolong Guo, and **Yier Jin**, “Golden Chip Free Electromagnetic Simulation and Statistical Analysis for Hardware Security,” *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-18)*, 2018.
28. Xiaolong Guo, Jiaji He, and **Yier Jin**, “Runtime SoC Trust Verification using Integrated Symbolic Execution and Solver,” *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-18)*, 2018.
29. Tao Liu, **Yier Jin**, and Wujie Wen, “Trojan Attacks and Defenses on Deep Neural Network based Intelligent Computing Systems,” *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-18)*, 2018.
30. Orlando Arias, Fahim Rahman, Mark Tehranipoor, and **Yier Jin**, “Device Attestation: Past, Present, and Future,” *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, 2018.
31. Dean Sullivan, Orlando Arias, Travis Meade, and **Yier Jin**, “Microarchitectural Minefields: 4K-Aliasing Covert Channel and Multi-Tenant Detection in IaaS Clouds,” *Network and Distributed System Security Symposium (NDSS)*, 2018.
32. Tao Liu, Lei Jiang, **Yier Jin**, Gang Quan, and Wujie Wen, “PT-Spike: A Precise-Time-Dependent Single Spike Neuromorphic Architecture with Efficient Supervised Learning,” *23rd Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2018. **Best Paper Nomination**
33. Qi Liu, Tao Liu, Zihao Liu, Yanzhi Wang, **Yier Jin**, and Wujie Wen, “Security Analysis and Enhancement of Model Compressed Deep Learning Systems under Adversarial Attacks,” *23rd Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2018. **Best Paper Nomination**
34. Fahim Rahman, Mohammad Farmani, Mark Tehranipoor, and **Yier Jin**, “Hardware-assisted Cybersecurity for IoT Devices,” *18th International Workshop on Microprocessor and SOC Test and Verification (MTV)*, 2017.
35. Xiaolong Guo, Raj Gautam Dutta, Jiaji He, and **Yier Jin**, “PCH Framework for IP Runtime Security Verification,” *Asian Hardware Oriented Security and Trust (AsianHOST)*, 2017, pp. 79-84.
36. Zhen Ling, Kaizheng Liu, Yiling Xu, **Yier Jin**, and Xinwen Fu, “An End-to-End View of IoT Security and Privacy,” *IEEE GLOBECOM*, 2017.
37. Tao Liu, Zihao Liu, Fuhong Lin, **Yier Jin**, Gang Quan, and Wujie Wen, “MT-Spike: A Multilayer Time-based Spiking Neuromorphic Architecture with Temporal Error Backpropagation,” *International Conference On Computer Aided Design (ICCAD)*, 2017, pp. 450-457.

38. Shaza Zeitouni, Ghada Dessouky, Orlando Arias, Dean Sullivan, Ahmad Ibrahim, **Yier Jin**, and Ahmad-Reza Sadeghi, "ATRIUM: Runtime Attestation Resilient Under Memory Attacks," *International Conference On Computer Aided Design (ICCAD)*, 2017, pp. 384-391. **Best Paper Nomination**
39. David Gens, Orlando Arias, Dean Sullivan, Christopher Liebchen, **Yier Jin**, and Ahmad-Reza Sadeghi, "LAZARUS: Practical Side-channel Resilient Kernel-Space Randomization," *International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, 2017.
40. Orlando Arias, Dean Sullivan, and **Yier Jin**, "HA2lloc: Hardware-Assisted Secure Allocator," *Hardware and Architectural Support for Security and Privacy (HASP)*, 2017, pp. 8:1-8:7.
41. Travis Meade, Zheng Zhao, Shaojie Zhang, David Pan, and **Yier Jin**, "Revisit Sequential Logic Obfuscation: Attacks and Defenses," *IEEE International Symposium on Circuits and Systems (ISCAS)*, 2017.
42. Kaveh Shamsi, Meng Li, Travis Meade, Zheng Zhao, David Z. Pan, and **Yier Jin**, "Cyclic Obfuscation for Creating SAT-Unresolvable Circuits," *GLSVLSI*, 2017, pp. 173-178.
43. Kaveh Shamsi, Meng Li, Travis Meade, Zheng Zhao, David Z. Pan, and **Yier Jin**, "Circuit Obfuscation and Oracle-guided Attacks: Who can Prevail?" *GLSVLSI*, 2017, pp. 357-362.
44. Raj Gautam Dutta, Xiaolong Guo, Teng Zhang, Kevin Kwiat, Charles Kamhoua, Laurent Njilla, and **Yier Jin**, "Estimation of Safe Sensor Measurements of Autonomous System Under Attack," *IEEE/ACM Design Automation Conference (DAC)*, 2017.
45. Kaveh Shamsi, Meng Li, Travis Meade, Zheng Zhao, David Z. Pan, and **Yier Jin**, "AppSAT: Approximately Deobfuscating Integrated Circuits," *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2017, pp. 46-51. **Best Paper Award**
46. Xiaolong Guo, Raj Gautam Dutta, and **Yier Jin**, "Proof-Carrying Hardware based IP Protection," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-17)*, 2017.
47. Raj Gautam Dutta, Xiaolong Guo, and **Yier Jin**, "Trusted Autonomous Systems under Sensor Attacks," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-17)*, 2017.
48. Nathalie Domingo, Bryan Pearson and **Yier Jin**, "Exploitations of Wireless Interfaces via Network Scanning," *International Conference on Computing, Networking and Communications (ICNC)*, 2017. (REU Site Paper)
49. Zihao Liu, Wujie Wen, Lei Jiang, **Yier Jin**, and Gang Quan, "A Statistical STT-RAM Retention Model for Fast Memory Subsystem Designs," *22nd Asia and South Pacific Design Automation Conference (ASP-DAC)*, 2017, pp. 720-725.
50. Zhang Chen, Pingqiang Zhou, Tsung-Yi Ho, **Yier Jin**, "How Secure is Split Manufacturing in Preventing Hardware Trojan?" *IEEE Asian Hardware Oriented Security and Trust Symposium (AsianHOST)*, 2016.
51. Xiaolong Guo, Raj Gautam Dutta, Prabhat Mishra, and **Yier Jin**, "Automatic RTL-to-Formal Code Converter for IP Security Formal Verification," *17th International Workshop on Microprocessor and SOC Test and Verification (MTV)*, 2016.
52. Dean Sullivan, Orlando Arias, Ahmad-Reza Sadeghi, Lucas Davi, and **Yier Jin**, "Policy Agnostic Control-Flow Integrity," *Black Hat Europe*, 2016.
53. Kelvin Ly, Orlando Arias, Jacob Wurm, Khoa Hoang, Kaveh Shamsi, and **Yier Jin**, "Voting System Design Pitfalls: Vulnerability Analysis and Exploitation of a Model Platform," *IEEE International Conference on Computer Design (ICCD)*, 2016, pp. 149-152.

54. Travis Meade, Shaojie Zhang, Zheng Zhao, David Pan, and **Yier Jin**, "Gate-Level Netlist Reverse Engineering Tool Set for Functionality Recovery and Malicious Logic Detection," *International Symposium for Testing and Failure Analysis (ISTFA)*, 2016.
55. Raj Gautam Dutta, Xiaolong Guo, and **Yier Jin**, "Quantifying Trust in Autonomous System Under Uncertainties," 29th IEEE International System-on-Chip Conference (SOCC), 2016, pp. 362-367.
56. Meng Li, Kaveh Shamsi, Travis Meade, Zheng Zhao, Bei Yu, **Yier Jin**, and David Z. Pan, "Provably Secure Camouflaging Strategy for IC Protection," *International Conference On Computer Aided Design (ICCAD)*, 2016, pp. 28:1-28:8.
57. Kaveh Shamsi, Wujie Wen, and **Yier Jin**, "Hardware Security Challenges Beyond CMOS: Attacks and Remedies," *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, 2016, pp. 200-205.
58. Kelvin Ly and **Yier Jin**, "Security Challenges in CPS and IoT: from End-Node to the System," *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, 2016, pp. 63-68.
59. Kelvin Ly and **Yier Jin**, "Security Studies on Wearable Fitness Trackers," *38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, 2016.
60. Dean Sullivan, Orlando Arias, Lucas Davi, Per Larsen, Ahmad-Reza Sadeghi, and **Yier Jin**, "Strategy Without Tactics: Policy-Agnostic Hardware-Enhanced Control-Flow Integrity," *IEEE/ACM Design Automation Conference (DAC'16)*, 2016, pp. 83.2:1-6.
61. Nancy Cam-Winget, Ahmad-Reza Sadeghi, and **Yier Jin**, "Can IoT be Secured: Emerging Challenges in Connecting the Unconnected," *IEEE/ACM Design Automation Conference (DAC'16)*, 2016, pp. 71.3:1-6.
62. Adib Nahiyani, Domenic Forte, **Yier Jin**, Mark Tehranipoor, Xiao Kan, and Kun Yang, "Framework of Security Vulnerabilities in Finite State Machines," *IEEE/ACM Design Automation Conference (DAC'16)*, 2016, pp. 57.4:1-6.
63. Travis Meade, **Yier Jin**, Mark Tehranipoor, and Shaojie Zhang, "Gate-Level Netlist Reverse Engineering for Hardware Security: Control Logic Register Identification," *IEEE International Symposium on Circuits and Systems (ISCAS)*, 2016, pp. 1334-1337.
64. Yu Bi, Kaveh Shamsi, Xunzhao Yin, Michael Niemier, Sharon Hu, and **Yier Jin**, "Enhancing Hardware Security with Emerging Transistor Technologies," *GLSVLSI*, 2016, pp. 305-310.
65. Xiaolong Guo, Raj Gautam Dutta, Prabhat Mishra, and **Yier Jin**, "Scalable SoC Trust Verification using Integrated Theorem Proving and Model Checking," *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, 2016, pp. 124-129.
66. Kaveh Shamsi and **Yier Jin**, "Security of Emerging Non-Volatile Memories: Attacks and Defenses," *IEEE VLSI Test Symposium (VTS)*, 2016.
67. Sandip Ray, Swarup Bhunia, **Yier Jin**, and Mark Tehranipoor, "[Extended Abstract] Security Validation in IoT Space," *IEEE VLSI Test Symposium (VTS)*, 2016.
68. Yu Bi, Kaveh Shamsi, Jiann-Shiun Yuan, Francois-Xavier Standaert, and **Yier Jin**, "Leverage Emerging Technologies For DPA-Resilient Block Cipher Design," *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, 2016, pp. 1538-1543.
69. An Chen, X. Sharon Hu, **Yier Jin**, Michael Niemier, Xunzhao Yin, "Using Emerging Technologies for Hardware Security Beyond PUFs," *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, 2016, pp. 1544-1549.

70. Travis Meade, Shaojie Zhang, and **Yier Jin**, "Netlist Reverse Engineering for High-Level Functionality Reconstruction," in *21st Asia and South Pacific Design Automation Conference (ASP-DAC 2016)*, 2016, pp. 655-660. **(Best Paper Award)**
71. Jacob Wurm, Orlando Arias, Khoa Hoang, Ahmad-Reza Sadeghi and **Yier Jin**, "Security analysis on consumer and industrial IoT Devices," in *21st Asia and South Pacific Design Automation Conference (ASP-DAC 2016)*, 2016, pp. 519-524.
72. Kaveh Shamsi, Pierre-Emmanuel Gaillardon, and **Yier Jin**, "Hardware Platform Protection Using Emerging Memory Technologies," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-16)*, 2016, pp. 21-24.
73. Travis Meade, Shaojie Zhang, Mark Tehranipoor, and **Yier Jin**, "A Comprehensive Netlist Reverse Engineering Toolset for IC Trust," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-16)*, 2016, pp. 281-284.
74. Yu Bi, Kaveh Shamsi, Jiann-Shiun Yuan, and **Yier Jin**, "More Than Moore in Security: Emerging Device based Low-Power Differentiate Power Analysis Countermeasures," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-16)*, 2016, pp. 467-470.
75. Kelvin Ly, Wei Sun, and **Yier Jin**, "Emerging Challenges in Cyber-Physical Systems: A Balance of Performance, Correctness, and Security," *IEEE Infocom CPSS Workshop*, 2016.
76. Sandip Ray, and **Yier Jin**, "Security Policy Enforcement in Modern SoC Designs," *International Conference On Computer Aided Design (ICCAD)*, 2015, pp. 345-350.
77. Xiaolong Guo, Raj Gautam Dutta, and **Yier Jin**, "Hierarchy-Preserving Formal Verification Methods for Pre-Silicon Security Assurance," *16th International Workshop on Microprocessor and SOC Test and Verification (MTV)*, 2015.
78. Kaveh Shamsi, Yu Bi, **Yier Jin**, Pierre-Emmanuel Gaillardon, Michael Niemier and X. Sharon Hu, "Reliable and High Performance STT-MRAM Architectures based on Controllable-Polarity Devices," *IEEE International Conference on Computer Design (ICCD)*, 2015, pp. 372-379.
79. Omar Nakhila, **Yier Jin**, and Cliff Zou, "Parallel Active Dictionary Attack on WPA2-PSK Wi-Fi Networks," *IEEE Military Communications Conference (MILCOM)*, 2015, pp. 665-670.
80. Yu Bi, Jiann-Shiun Yuan, and **Yier Jin**, "Split Manufacturing in Radio-Frequency Designs," *The 2015 International Conference on Security and Management (SAM)*, 2015, pp. 204-210.
81. Lucas Davi, Matthias Hanreich, Debayan Paul, Ahmad-Reza Sadeghi, Patrick Koerberl, Dean Sullivan, Orlando Arias, and **Yier Jin**, "HAFIX: Hardware-Assisted Flow Integrity Extension," *IEEE/ACM Design Automation Conference (DAC)*, 2015. **(Best Paper Award)**
82. Xiaolong Guo, Raj Gautam Dutta, **Yier Jin**, Farimah Farahmandi, and Prabhath Mishra, "Pre-Silicon Security Verification and Validation: A Formal Perspective," *IEEE/ACM Design Automation Conference (DAC)*, 2015.
83. Yang Liu, Shiyang Hu, Jie Wu, Yiyu Shi, **Yier Jin**, Yu Hu, and Xiaowei Li, "Impact assessment of net metering on smart home cyberattack detection," *IEEE/ACM Design Automation Conference (DAC)*, 2015.
84. Charalambos Konstantinou, Michail Maniatakos, Fareena Saqib, Shiyang Hu, Jim Plusquellic, and **Yier Jin**, "Cyber-Physical Systems: A Security Perspective," *European Test Symposium (ETS)*, 2015.
85. Jeff Biggers, Travis Meade, Shaojie Zhang, Youngok Pino, and **Yier Jin**, "Automated RTL Code Rebuilding through Netlist Analysis," *Government Microcircuit Applications and Critical Technology Conference (GOMACTech-15)*, 2015, pp. 155-158.

86. **Yier Jin**, “Innovative IoT Authentication Methods Leveraging Smart Sensors,” *UCF Conference on Sensor Devices and Applications*, Oct 2015.
87. Ray Potter, **Yier Jin**, “Don’t Touch That Dial: How Smart Thermostats Have Made Us Vulnerable,” *RSA Conference*, 2015.
88. **Yier Jin**, “Security and Privacy in Internet of Things and Wearable Devices,” *CHASE Conference on Secure/Trustworthy Systems and Supply Chain Assurance*, 2015.
89. Yu Bi, Pierre-Emmanuel Gaillardon, X. Sharon Hu, Michael Niemier, Jiann-Shiun Yuan, and **Yier Jin**, “Leveraging Emerging Technology for Hardware Security - Case Study on Silicon Nanowire FETs and Graphene SymFETs,” *Asia Test Symposium (ATS)*, 2014, pp. 342-247.
90. **Yier Jin**, “Design-for-Security vs. Design-for-Testability: A Case Study on DFT Chain in Cryptographic Circuits,” *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, 2014, pp. 19-24.
91. Dean Sullivan, Jeff Biggers, Guidong Zhu, Shaojie Zhang, and **Yier Jin**, “FIGHT-Metric: Functional Identification of Gate-Level Hardware Trustworthiness,” *Design Automation Conference (DAC)*, 2014, pp. 173:1–173:4.
92. **Yier Jin**, and Dean Sullivan, “Real-Time Trust Evaluation in Integrated Circuits,” *Design, Automation and Test in Europe Conference and Exhibition, (DATE)*, 2014.
93. **Yier Jin**, “EDA Tools Trust Evaluation through Security Property Proofs,” *Design, Automation and Test in Europe Conference and Exhibition, (DATE)*, 2014.
94. **Yier Jin**, “Embedded System Security in Smart Consumer Electronics,” *4th International Workshop on Trustworthy Embedded Devices (TrustED 2014)*, 2014, pp. 59-59.
95. **Yier Jin**, Grant Hernandez, and Daniel Buentello, “Smart Nest Thermostat: A Smart Spy in Your Home,” *Black Hat USA*, 2014.
96. **Yier Jin**, and Daniela Oliveira, “Trustworthy SoC Architecture with On-Demand Security Policies and HW-SW Cooperation,” *5th Workshop on SoCs, Heterogeneous Architectures and Workloads (SHAW-5)*, 2014.
97. **Yier Jin**, and Yiorgos Makris, “A Proof-Carrying Based Framework for Trusted Microprocessor IP,” *IEEE/ACM International Conference on Computer-Aided Design (ICCAD)*, November 2013, pp. 824-829.
98. Yu Liu, **Yier Jin**, and Yiorgos Makris, “Hardware Trojans in Wireless Cryptographic ICs: Silicon Demonstration and Detection Method Evaluation,” *IEEE/ACM International Conference on Computer-Aided Design (ICCAD)*, November 2013, pp. 399-404.
99. **Yier Jin**, Dmitry Maliuk and Yiorgos Makris, “A Post-Deployment IC Trust Evaluation Architecture,” *Proceedings of IEEE International On-Line Testing Symposium (IOLTS)*, July 2013, pp. 224-225. (invited)
100. **Yier Jin**, Bo Yang and Yiorgos Makris, “Cycle Accurate Information Assurance by Proof Carrying-Based Signal Sensitivity Tracing,” *Proceedings of IEEE International Symposium on Hardware-Oriented Security and Trust (HOST)*, June 2013, pp. 99-106.
101. Ozgur Sinanoglu, Naghmeh karimi, Jeyavijayan Rajendran, Ramesh Karri, **Yier Jin**, Dmitry Maliuk, Ke Huang, Yiorgos Makris, “Reconciling the IC Test and Security Dichotomy,” *Proceedings of 18th IEEE European Test Symposium (ETS)*, May 2013, pp. 1-6.
102. **Yier Jin**, Michail Mihalidis and Yiorgos Makris, “Exposing Vulnerabilities of Untrusted Computing Platforms,” *Proceedings of the IEEE International Conference on Computer Design (ICCD)*, 2012, pp. 131-134.

103. **Yier Jin**, and Yiorgos Makris, "Proof Carrying-Based Information Flow Tracking for Data Secrecy Protection and Hardware Trust," *Proceedings of VLSI Test Symposium (VTS)*, 2012, pp. 252-257.
104. **Yier Jin**, Dmitry Maliuk and Yiorgos Makris, "Post-Deployment Trust Evaluation in Wireless Cryptographic ICs," *Proceedings of the Design, Automation & Test in Europe (DATE)*, 2012, pp. 965-970.
105. **Yier Jin** and Yiorgos Makris, "PSCML: Pseudo-Static Current Mode Logic," *Proceedings of 18th IEEE International Conference on Electronics, Circuits, and Systems (ICECS)*, 2011, pp. 41-44.
106. **Yier Jin** and Yiorgos Makris, "Is Single Trojan Detection Scheme Enough?," *Proceedings of the IEEE International Conference on Computer Design (ICCD)*, 2011, pp. 305-308.
107. Eric Love, **Yier Jin** and Yiorgos Makris, "Enhancing Security via Provably Trustworthy Hardware Intellectual Property," *Proceedings of the IEEE International Symposium on Hardware-Oriented Security and Trust (HOST)*, 2011, pp. 12-17.
108. **Yier Jin** and Yiorgos Makris, "DFTT: Design-for-Trojan-Test," *Proceedings of 17th IEEE International Conference on Electronics, Circuits, and Systems (ICECS)*, 2010, pp. 1168-1171.
109. **Yier Jin**, Nathan Kupp and Yiorgos Makris, "Experiences in Hardware Trojan Design and Implementation," *Proceedings of IEEE International Symposium on Hardware-Oriented Security and Trust (HOST)*, 2009, pp. 50-57.
110. **Yier Jin**, and Yiorgos Makris, "Hardware Trojan Detection Using Path Delay Fingerprint," *Proceedings of IEEE International Symposium on Hardware-Oriented Security and Trust (HOST)*, 2008, pp. 51-57.
111. **Yier Jin**, and Haibin Shen, "Revisiting Scalable Modular Multiplication over $GF(2^m)$ for Elliptic Curve Cryptography," *Proceedings of 8th International Conference on Solid-State and Integrated Circuit Technology (ICSICT)*, 2006, pp. 2114-2117.
112. **Yier Jin**, Haibin Shen, and Rongquan You, "Implementation of SMS4 Block Cipher on FPGA," *Proceedings of International Conference on Communications and Networking in China (CHINACOM)*, 2006, pp. 1-4.
113. Haibin Shen, and **Yier Jin**, "Unbalanced Exponent Modular Reduction over Binary Field and Its Implementation," *Proceedings of International Conference on Innovative Computing, Information and Control (ICICIC)*, 2006, pp. 190-193.
114. Dawei Li, **Yier Jin**, Haibin Shen, and Xiaolang Yan, "Design of Random Number Generation Algorithm," *Proceedings of International Conference on Computational Intelligence and Security (CIS)*, 2006, pp. 1287-1290.
115. Rongquan You, Haibin Shen, and **Yier Jin**, "Interconnect Estimation for Mesh-Based Reconfigurable Computing," *Proceedings of The IFIP International Conference on Embedded and Ubiquitous Computing (EUC)*, LNCS 4096, 2006, pp. 766-775.

PANELS

1. Hardware Anti-counterfeiting and Counterfeit Detection: State-of-the-art and Future Directions of Research, *Asian Hardware Oriented Security and Trust (Asian-HOST)*, December 2019
2. IoT Security: From Commercial Devices to Industrial Infrastructure, *The 2nd IEEE International Conference on Industrial Internet (ICII)*, November 2019
3. Securing the Internet of Things: Emerging Threats and Opportunities, *Cyber-Florida Research Symposium*, April 2019
4. Physical Inspection and Attacks: New Frontiers in Hardware Security, *International Test Conference (ITC)*, October 2018

5. AI Applications and Security, *Future Chips 2017: Smart Chips, Smart World*, December 2017
6. Hardware Security: Myth or Reality? *ACM/IEEE System Level Interconnect Prediction Workshop (SLIP)*, June 2016
7. Hardware IP Protection Through Invasive and Non-Invasive Analysis, *IEEE Symposium on Hardware Oriented Security and Trust (HOST)*, May 2016
8. Cyber Physical Systems Security: What Are the Challenges and Best Practices? *Florida Institute for Cybersecurity Research: Annual Conference on Cybersecurity*, February 2016
9. ATARC Visionary Panel - Mobile Technology of the Future, *ATARC Federal Mobile Computing Summit*, August 2015
10. Hacking Things: Security and Privacy Challenges in Internet of Things, *IEEE Conference on Communication and Network Security*, September 2015

TUTORIALS

1. Basel Halak, Maire O'Neill, **Yier Jin**, and Gang Qu, "Hardware-based Security Solutions for the Internet of Things," *25th Asia and South Pacific Design Automation Conference (ASP-DAC)*, Beijing, China, January 2020.
2. **Yier Jin**, "An Overview of IoT Security: From Individual Devices to IoT Botnet," *National Cheng Kung University*, Tainan, Taiwan, December 2019.
3. **Yier Jin**, "Introduction to Hardware Security and Trust," *International Workshop on Hardware Security*, Tsinchu, Taiwan, September 2019.
4. Basel Halak, Maire O'Neill, **Yier Jin**, and Gang Qu, "Hardware-based Security Solutions for the Internet of Things," *Design, Automation and Test in Europe Conference and Exhibition (DATE)*, Florence, Italy, March 2019.
5. **Yier Jin**, and Xinwen Fu, "Security of Internet of Things (IoT) and Cyber-Physical Systems (CPS): A Hands on Approach," *Design Automation Conference (DAC)*, San Francisco, CA, June 2018.
6. **Yier Jin**, "Introduction to Hardware and IoT Security," *International Symposium on VLSI Design, Automation and Test (VLSI-DAT)*, Tsinchu, Taiwan, April 2018.
7. **Yier Jin**, "The The Emergence of Hardware Security," *IEEE International Conference on Data Science in Cyberspace (DSC)*, Shenzhen, China, June 2017.
8. Chip Hong Chang, and **Yier Jin**, "The Emergence of Hardware Oriented Security and Trust," *22nd Asia and South Pacific Design Automation Conference (ASP-DAC)*, Chiba, Japan, January 2017.
9. **Yier Jin**, "Introduction to Cyber-Physical System Security: From the Hardware Perspective," *8th IEEE International Workshop on Information Forensics and Security (WIFS)*, Abu Dhabi, UAE, December 2016.
10. **Yier Jin** and Ahmad-Reza Sadeghi, "IoT Security and Privacy Challenges and Solutions," *Embedded Systems Week (ESWEEK)*, Pittsburgh, PA, October 2016.

INVITED PRESENTATIONS

- **National Cheng Kung University**, Tainan, Taiwan December 2019
Title: Hardware Supported Cybersecurity for IoT (Host: Chung-Ho Chen)
- **University of Cincinnati**, Cincinnati, OH December 2019
Title: Analog Circuit Security in the Digital World
- **International Workshop on Hardware Security**, Hsinchu, Taiwan September 2019
Title: Analog Circuit Security in the Digital World
- **1st International Summer School on Computational Forensics (SuCoFo2019)**, Lillehammer, Norway August 2019
Title: Security and Forensics in the IoT Era: From Reverse Engineering to HoneyIoT (Host: Katrin Franke)

- **Norwegian University of Science and Technology**, Lillehammer, Norway
August 2019
Title: How Can LEGO Help IoT Design and Security (Host: Geir Olav Dyrkolbotn)
- **Pacific Northwest National Laboratory**, Richland, WA August 2019
Title: Power Distribution Network (PDN) based Attacks and Defenses (Host: Kevin Barker)
- **Infineon Technologies**, Munich, Germany August 2019
Title: CAD for Security: A Full Reverse Engineering Toolchain from Layout to RTL (Host: Bernhard Lippmann)
- **Technical University of Munich**, Munich, Germany July 2019
Title: CAD for Security: A Full Reverse Engineering Toolchain from Layout to RTL (Host: Ulf Schlichtmann)
- **2019 ASEE Annual Conference & Exposition**, Tampa, FL June 2019
Title: Hands-on Robotics Bootcamp with TI-RSLK (Host: Mark Easley)
- **The Fourth IEEE International Workshop on Design Automation for Cyber-Physical Systems (DACPS), co-located with DAC**, Las Vegas, NV
June 2019
Title: GPS Spoofing Attack and its Impact on LIDAR Sensor
- **Hardware Security Workshop**, Hsinchu, Taiwan May 2019
Title: Enabling a Trustworthy Electronics Supply Chain from a Global Perspective
- **National Tsing Hua University**, Hsinchu, Taiwan May 2019
Title: Introduction to Hardware and IoT Security (Host: Tsung-Yi Ho)
- **Universidade Estadual de Campinas (UNICAMP)**, Sao Paulo, Brazil April 2019
Title: Hardware Supported Cybersecurity for IoT (Host: Anderson Rocha)
- **University of Texas at San Antonio**, San Antonio, TX March 2019
Title: Hardware Supported Cybersecurity for IoT (Host: Guen Chen)
- **LENNOX**, Dallas, TX March 2019
Title: An Overview of IoT Security: From Individual Devices to IoT Botnet (Host: Keith Mowery)
- **University of Southampton**, Southampton, UK February 2019
Title: Analog Circuit Security in the Digital World (Host: Basel Halak)
- **National Cheng Kung University**, Tainan, Taiwan December 2018
Title: Hardware Supported Cybersecurity for Internet of Things (Host: Chung-Ho Chen)
- **National Tsing Hua University**, Hsinchu, Taiwan December 2018
Title: Deep Learning Model Stealing Using Adversarial Examples (Host: Tsung-Yi Ho)
- **University of South Florida**, Tampa, FL November 2018
Title: Analog Circuit Security in the Digital World (Host: Srinivas Katkoori)
- **Security-Oriented Designs of Computer Architectures and Processors (SODCAP) Workshop (keynote), Co-Located with ACM CCS**, Toronto, Canada
October 2018
Title: Architectural Security and Side-Channel Attacks on Modern Processors
- **2018 China Internet Security Conference**, Beijing, China Sep 2018
Title: “IoT and System Security: from the VLSI Perspective”
- **NSF CPS Security and Education**, Charlotte, NC July 2018
Title: “A Hands On Approach for CPS and IoT Security Education” (Host: Weichao Wang)

- **National Tsing Hua University**, Hsinchu, Taiwan April 2018
 Title: “Hardware Security and Its Implication to Deep Neural Network” (Host: Tsung-Yi Ho)
- **Northwestern University**, Chicago, IL February 2018
 Title: “Hardware Supported Cybersecurity for Internet of Things” (Host: Yan Chen)
- **18th International Workshop on Microprocessor/SoC Test, Security & Verification (keynote)**, Austin, TX December 2017
 Title: “Hardware Supported Cybersecurity for Internet of Things” (Host: Sohrab Aftabjahani)
- **Invitational Workshop on Foundations and Challenges for Proactive and Dynamic Network Defense**, Tampa, FL November 2017
 Title: “Proactive Defense in IoT Era: From a Hardware Perspective” (Host: Zhuo Lu)
- **University of Arkansas**, Fayetteville, AR November 2017
 Title: “Hardware Supported Cybersecurity for Internet of Things” (Host: Jia Di)
- **ACM Special Interest Group on Design Automation (SIGDA) Annual Meeting**, Irvine, CA November 2017
 Title: “Cross-Layer Research vs Cross-Layer Researcher Life: From an IoT Security Perspective” (Host: Yuan Xie and Vijaykrishnan Narayanan)
- **SCx3 Cybersecurity Conference (keynote)**, Melbourne, FL November 2017
 Title: “The Evolution of Hardware-Assisted Computing Systems for IoT”
- **Discover Financial Services**, Gainesville, FL October 2017
 Title: “Security Enhanced Gateway for Multi-layer Smart Home IoT Payment System Protection” (Host: David Nelms)
- **Texas Instrument**, Dallas, TX July 2017
 Title: “Security Challenges for SoC Designs in Internet of Things Era” (Host: Christy She)
- **IEEE International Workshop on Design Automation for Cyber-Physical Systems**, Austin, TX June 2017
 Title: “Security and Privacy Challenges in Internet of Things” (Host: Xin Li)
- **Warren B. Nelms Institute for the Connected World (Opening Ceremony)**, **University of Florida**, Gainesville, FL April 2017
 Title: “Security and Privacy Challenges in Internet of Things” (Host: John Harris)
- **Notre Dame University**, Notre Dame, IN February 2017
 Title: “Internet of Things Design and Security from a Cross-Layer Perspective” (Host: Sharon Hu)
- **Texas A & M University**, College Station, TX February 2017
 Title: “Internet of Things Design and Security from a Cross-Layer Perspective” (Host: Alex Sprintson)
- **Cisco**, Gainesville, FL February 2017
 Title: “Internet of Things (IoT): Design and Security” (Host: Yousef Iskander)
- **University of Florida**, Gainesville, FL January 2017
 Title: “Internet of Things Design and Security from a Cross-Layer Perspective” (Host: William Eisenstadt)
- **Florida Security Workshop**, Tampa, FL December 2016
 Title: “IoT Security Training Platforms for Professionals and Engineers” (Host: Simon Ou)
- **Florida Center of Cybersecurity**, Tampa, FL October 2016
 Title: “Demonstration: Trusted CPS Platform Development”
- **University of George**, Athens, GA September 2016
 Title: “IoT Security: From a Cross-Layer Perspective” (Host: Kang Li)

- **EDA Workshop**, Hong Kong, China August 2016
Title: “Arm-Race on Logic Obfuscation and IC Camouflaging for IP Protection”
(Host: Zili Shao)
- **Air Force Research Lab (AFRL)**, Rome NY August 2016
Title: “Security Challenges in CPS and IoT: from End-Node to the System” (Host: Charles Kamhoua and Kevin Kwiat)
- **Syracuse University**, Syracuse, NY July 2016
Title: “Security Vulnerability Database for IoT” (Host: Yanzhi Wang)
- **International Workshop on Hardware Security**, Beijing, China June 2016
Title: “Hardware’s Active Role in Cybersecurity” (Host: Xiaoxiao Wang)
- **University of Delaware**, Newark, DE May 2016
Title: “Introduction to Hardware Security: Past, Current and Future” (Host: Chengmo Yang)
- **The 4th Asia Workshop on Smart Sensor System (AWSSS 2016)**, Beijing, China March 2016
Title: “Security and Privacy in IoT Era: From Attack to Defense” (Host: Yongpan Liu)
- **FICS Annual Conference on Cybersecurity**, Gainesville, FL Feb 2016
Title: “IoT Security: From Hacking to Defense” (Host: Mark Tehranipoor and Patrick Traynor)
- **Cisco**, Gainesville, FL Dec 2015
Title: “Remote Assessment for IoT Security: Tools, Metrics, and Test Platforms”
(Host: Bill Eklow)
- **National Institute of Standards and Technology (NIST)**, Gainesville, FL Dec 2015
Title: “Remote Assessment for IoT Security: Tools, Metrics, and Test Platforms”
(Host: Donna Dodson)
- **University of Texas, San Antonio**, San Antonio, TX Nov 2015
Title: “Security and Privacy on IoT and Wearable Devices” (Host: Jianwei Niu)
- **ARO Workshop on Cryptography and Hardware Security for the Internet of Things**, College Park, MD Oct 2015
Title: “Case study on IoT Device Security and Privacy”
- **2015 China Internet Security Conference (Keynote Speech)**, Beijing, China Sep 2015
Title: “Smart vs. Security: IoT Security and Protections”
- **Notre Dame University**, Notre Dame, IN Sep 2015
Title: “Introduction to Hardware Security - Formal Methods, IoT Security, and Reverse Engineering” (Host: X. Sharon Hu)
- **NIST - Cybersecurity Innovation Forum**, Washington, DC Sep 2015
Title: “Hardware Trust and Integrity: The First Step Toward Securing Computer Systems” (Host: Andrew Regenscheid)
- **Cisco**, Gainesville, FL Sep 2015
Title: “IoT Security” (Host: Tony Jeffs)
- **National Security Campus**, Gainesville, FL Aug 2015
Title: “Introduction to Hardware Security - Formal Methods, IoT Security, and Reverse Engineering” (Host: Perry Tapp)
- **Honeywell - FICS**, Gainesville, FL Jun 2015
Title: “IoT/Hardware Security” (Host: Mark Tehranipoor)
- **Raytheon - FICS**, Gainesville, FL Jun 2015
Title: “Automated Functionality Rebuilding Through Netlist Reverse Engineering”
(Host: Mark Tehranipoor)

- **Trustworthy Hardware Workshop** New York, NY Nov 2014
Title: “Computer System Protection through Run-time Hardware-Software Collaboration,” (Host: Ramesh Karri)
- **University of George**, Athens, GA Sep 2014
Title: “Computer System Protection through Hardware-Software Collaboration” (Host: Kang Li)
- **Pennsylvania State University**, State College, PA Sep 2014
Title: “Computer System Protection through Run-Time Hardware-Software Collaboration” (Host: Vijaykrishnan Narayanan)
- **University of Connecticut**, Storrs, CT Aug 2014
Title: “Embedded System Security in Smart Consumer Electronics: A Case Study on Google Nest Thermostat” (Host: Domenic Forte)
- **Information Sciences Institute/USC** Washington, D.C. May 2014
Title: “Security in Silicon - Challenges and Opportunities Ahead” (Host: Youngok Pino)
- **Intel Corp.** Hillsboro, OR Nov 2013
Title: “Proof-Carrying Based Trusted Embedded System Design and Secure SoC Integration” (Host: David Ott and Mukesh Ranjan)
- **Trustworthy Hardware Workshop** New York, NY Nov 2013
Title: “Trusted Embedded System Design Through the Unification of Trusted Third-Party Software Programs and Hardware IP Cores” (Host: Cliff Wang)
- **Northeastern University** Boston, MA Apr 2012
Title: “Trusted Integrated Circuits” (Host: Edmund Yeh)
- **University of New Mexico** Albuquerque, NM Apr 2012
Title: “Trusted Integrated Circuits” (Host: Nasir Ghani)
- **Stony Brook University** New York, NY Apr 2012
Title: “Trusted Integrated Circuits” (Host: Kenneth Short)
- **University of Maryland** College Park, MD Mar 2012
Title: “Trusted Integrated Circuits” (Host: Gang Qu)
- **George Mason University** Fairfax, VA Mar 2012
Title: “Trusted Integrated Circuits” (Host: Kris Gaj)
- **Illinois Institute of Technology** Chicago, IL Mar 2012
Title: “Trusted Integrated Circuits” (Host: Kui Ren)
- **Intel Corp.** Hillsboro, OR Jan 2012
Title: “Trusted Integrated Circuits and Proof Carrying-based Hardware Intellectual Property Protection” (Host: Dhinesh Manoharan)

TEACHING EXPERIENCE

Instructor for Courses Jul 2017 - Present
Electrical and Computer Engineering Department, University of Florida

- Undergraduate Course: EEL 4930 - Microprocessor Applications II (aka IoT Design)
- Undergraduate Course: EGN 1935 - Home Automation Fundamentals
- Graduate Course: EEL 5934 - IoT Security and Privacy

Instructor for Courses Dec 2012 - May 2017
Electrical and Computer Engineering Department, University of Central Florida

- Undergraduate Course: EEL 4742 - Embedded Systems
- Graduate Course: EEE 6347 - Trustworthy Hardware
- Graduate Course: EEE 5390C - Full Custom VLSI Design
- Undergraduate Course: EEE 4346C - Hardware Security and Trusted Circuit Design

Teaching Fellow Fall 2010, Fall 2008
School of Engineering and Applied Science, Yale University

- Graduate Course: EENG875 - Introduction to VLSI System Design

Teaching Fellow Spring 2010
School of Engineering and Applied Science, Yale University

- Undergraduate Course: EENG201b - Introduction to Computer Engineering

**OUTREACH
ACTIVITIES**

Faculty Mentor May 2018 - Aug 2018
Distributed Research Experiences for Undergraduates (DREU), Computing Research
Association - Women (CRA-W)

Faculty Mentor Aug 2018 - June 2019
University Minority Mentor Program (UMMP), University of Florida

Faculty Mentor Summer 2019
Summer Undergraduate Research at Florida (SURF), University of Florida

**CURRENT
POST-DOCS**

- Raj Gautam Dutta since Aug 2018
- Yumin Hou since Dec 2018

**CURRENT
PHD STUDENTS**

- Dean Sullivan since Jan 2014
- Kaveh Shamsi since Aug 2014
- Orlando Arias since Aug 2016
- Haoqi Shan since Jan 2018
- Yichen Jiang since May 2018
- Yaodan Hu since May 2018
- Kaichen Yang since May 2018
- Christopher Brant since Aug 2019 (co-advised by Dr. Daniela Oliveira)
- Max Panoff since Aug 2019

**VISITING
SCHOLARS**

- Honggang Yu since Jan 2018
- Kejun Chen since Mar 2019

**CURRENT
UNDERGRAD**

- Jacob Crain since Aug 2019

**PREVIOUS
HIGH SCHOOL
TEACHERS**

- Lauren Bracken (RET Teacher)
- James Ebbert (RET Teacher)
- Katherine Grady (RET Teacher)
- Jared Herretes (RET Teacher)
- Chad Hobby (RET Teacher)
- Junior Jn-Baptiste (RET Teacher)
- Kevin Scott (RET Teacher)
- Ronda Smucz (RET Teacher)
- Erika Trnka (RET Teacher)
- Jazmine Williams (RET Teacher)

**PREVIOUS
PHD STUDENTS**

- Xiaolong Guo
- Fahim Rahman (co-advised by Dr. Mark Tehranipoor)
- Travis Meade (co-advised by Dr. Shaojie Zhang)
- Raj Gautam Dutta

**PREVIOUS
MS STUDENTS**

- Miles Mulet
- Kelvin Ly (STERIS Instrument Management Services)
- Bo Hu
- Heather Lawrence (PhD student at Nebraska Applied Research Institute (NARI))

**PREVIOUS
SCHOLARS**

- Tzung-Yu Tsai
- Yun-Yun Tsai
- Jiaji He

**PREVIOUS
UNDERGRAD**

- John Woodman
- Jacqueline Gauthier
- Tyler J Sparks
- Claire Seiler
- Timon Angerhofer
- Fernando Guerra
- Evan Richard (Florida Power and Light)
- Kyle Payne (Galatea Associates)
- Wesley Piard
- Christopher Crary
- Amon Harris (REU Site student)
- Jacob Hazelbaker
- Andrew Hughes
- Alexis Drayton
- Coleman Rogers
- Jacob Wurm (Raytheon SI)
- Khoa Hoang
- Orlando Arias (PhD student at the University of Central Florida)
- Kayshaunna Williams (REU Site Student)
- Bryan Pearson (REU Site Student)
- Nathalie Domingo (REU Site student)
- Thomas Louisville
- Andrew Mendoza
- Igor Prokopenko (Associate Information Security and Compliance Analyst at Publix Super Markets)
- Patrick Armengol (Graduate student at the Florida International University)
- Grant Hernandez (PhD student at the University of Florida)
- Dean Sullivan (PhD student at the University of Florida)
- Brandon Frazer (Associate electrical engineer at Mitsubishi Power Systems Americas)

- Ryan Dixon (Electrical engineer associate at Lockheed Martin)
- Victor Medina (Raytheon SI)
- Danny Aybar
- Ritika Oswal
- Roland Anderson
- Richard Klimek
- Jeff Biggers
- Henry Chan

INSTITUTIONAL SERVICE

- State University System of Florida (SUSF) Cybersecurity Advisory Council Apr 2019 - Present
- UF Department of Electrical and Computer Engineering (ECE) Graduate Recruiting and Admissions Committee (GRAC) Aug 2019 - Present
- UF Computer Engineering Area Computer-related Certificates Subcommittee Chair Feb 2019 - Present
- UF Semmoto Professor Search Committee Aug 2017 - Jan 2019
- UF Undergraduate EE Curriculum Committee Jul 2017 - Present
- UCF CpE Curriculum Oversight and Review Committee (CORC) May 2016 - Jun 2017
- UCF Cyber Cluster faculty search committee Sep 2015 - Jun 2017
- UCF Computer Engineering faculty search committee Oct 2014 - Jun 2016
- UCF ECE representative on the cybersecurity task force committee Aug 2014 - Jun 2017
- Faculty Library Representative for the Electrical and Computer Engineering Division of the Department of Electrical Engineering and Computer Science, University of Central Florida 2013 - 2017
- PhD Thesis Committee
 - Sirui Luo (Advisor: Dr. Juin J. Liou)
 - Zhixin Wang (Advisor: Dr. Juin J. Liou)
 - Jianling Yin (Advisor: Dr. Jun Wang)
 - Yunfeng Xi (Advisor: Dr. Juin J. Liou)
 - Jun Ding (Advisor: Dr. Nancy Hu)
 - Ruijun Wang (Advisor: Dr. Jun Wang)
 - Yu Bai (Advisor: Dr. Mingjie Lin)
 - Adithya Prakash (Advisor: Dr. Kalpathy B. Sundaram)
 - Wei Liang (Advisor: Dr. Juin J. Liou and Dr. Kalpathy B. Sundaram)
 - Miao Meng (Advisor: Dr. Juin J. Liou and Dr. Kalpathy B. Sundaram)
 - Shuo Yang (Advisor: Dr. Swarup Bhunia)

PROFESSIONAL SERVICE *Associate Editor*

- ACM Design Automation of Electronic Systems (TODAES) (February 2019 - Present)
- IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD) (January 2018 - Present)
- Journal of Network and Information Security, Chinese (June 2017 - Present)
- Springer Journal of Hardware and System Security (HaSS) (June 2016 - Present)
- Integration, the VLSI Journal (June 2016 - Present)
- IET Cyber-Physical Systems: Theory & Applications (June 2016 - Present)
- IET Computers & Digital Techniques (March 2016 - Present)
- IEEE SMC Society Technical Committee on CCPS Newsletter (September 2015 - Present)

Guest Editor

- Elsevier Journal of Computer Networks. Special Issue on Security and Privacy for the Internet of Things.
- Springer Journal of Hardware and Systems Security. Special Issue on Secure and Trustworthy Computing Devices in the IoT Regime.
- IEEE Transactions on Multi-Scale Computing Systems. Special Issue/Section on Hardware/Software Cross-Layer Technologies for Trustworthy and Secure Computing.
- VLSI, The Journal of Integration. Special Issue on ASP-DAC 2019.

Proposal Panelist/Reviewer

- Department of Energy (DoE), 2016, 2017, 2018, 2019
- National Science Foundation (NSF), 2018, 2019
- Department of Energy (DoE), Small Business Innovation Research (SBIR), 2016, 2018, 2019
- The Croatian Science Foundation (HRZZ), 2018
- Natural Sciences and Engineering Research Council of Canada (NSERC), 2018
- Netherlands Organisation for Scientific Research (NWO), 2018
- Deutsche Forschungsgemeinschaft (German Research Foundation), 2016
- Foundation for Polish Science (FNP), 2016
- Florida Center of Cybersecurity (FC2) review panel, 2015, 2016
- CHIST-ERA review panel, 2016
- Ontario Research Fund - Research Excellence (ORF-RE), 2016

Conference/Workshop (Co-)Founder

- IEEE Asian Hardware Oriented Security and Trust Symposium (AsianHOST)
- Internet of Things (IoT) and Automotive Security Workshop (IASW '17) affiliated to the IEEE International Symposium on Hardware Oriented Security and Trust (HOST '17)

Conference/Workshop (Co-)Chair

- IEEE International Conference on Embedded Software and Systems (ICCESS '20)
- IEEE International Workshop on Design Automation for Cyber-Physical Systems (CPSDA), 2016, 2017, 2018, 2019, 2020
- IEEE Cyber Science and Technology Congress (CyberSciTech '18, '19)
- Design Automation Summer School (DASS '16, '17, '18)

- International IEEE Verification and Security Workshop (IVSW '18)
- Asian Hardware Oriented Security and Trust Symposium (AsianHOST '16, '17, '18)
- Internet of Things (IoT) and Automotive Security Workshop (IASW '17), affiliated to the IEEE International Symposium on Hardware Oriented Security and Trust (HOST '17)
- Cyber-Physical Systems Security & Privacy Workshop (CPSSP '17), affiliated to the IEEE International Conference on Data Science in Cyberspace (IEEE DSC '17)
- SIGDA/DAC International Hardware Design Contest 2017
- IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2017)
- The First Florida Security Workshop, 2016
- IEEE INFOCOM Workshop on Cross-Layer Cyber-Physical Systems Security (CPSS), 2016

Organizing Committee

- IEEE International Symposium on Hardware-Oriented Security and Trust (HOST '15, '16, '17, '18, '19, '20)
- IEEE International Conference on Embedded Software and Systems (ICCESS '19)
- IEEE Computer Society Annual Symposium on VLSI (ISVLSI '19)
- IFIP Internet of Things (IoT) conference (IFIP IoT '19)
- IEEE International Conference on Consumer Electronics (ICCE '18, '19)
- IEEE International Conference on Computer Design (ICCD '17, '18)
- Asia and South Pacific Design Automation Conference (ASP-DAC '17, '18)
- ICCAD Workshop on Design Automation for Analog and Mixed-Signal (AMS) Circuits 2017
- IEEE International Midwest Symposium on Circuits and Systems (MWSCAS '17)
- Security B-Sides Orlando, 2015, 2016.
- Asia Workshop on Smart Sensor System (AWSSS '16)
- International Symposium on VLSI Design and Test (VDATE '14)

Best Paper Selection Committee

- SIGDA Outstanding PhD Dissertation Award (OPDA) Committee, 2019
- ICCAD Best Paper Selection Committee, 2018, 2019

Conference Special Committee

- Design Automation Conference (DAC) Special Focus Committee in Security Area, 2020

Technical Program Committee

- Workshop on the Internet of Things Security and Privacy (IoT S&P '19)
- International Test Conference (ITC '15, '16, '17, '18, '19)
- IEEE/ACM International Conference on Computer-Aided Design (ICCAD '17, '18, '19)
- SIGDA PhD Forum at DAC 2016, 2017, 2018, 2019
- The International Workshop on Security in Cloud Computing (AsiaCCS-SCC '17, '19)
- The International Symposium on Privacy Computing (PriCom '19)
- International Conference on Neuromorphic Systems (ICONS '19)

- ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec '18, '19)
- IEEE Computer Society Annual Symposium on VLSI (ISVLSI '14, '15, '16, '17, '18, '19)
- Attack and Solutions in Hardware Security Co-located with ACM CCS (ASHES '17, '18, '19)
- Great Lake Symposium on VLSI (GLSVLSI '16, '17, '18, '19)
- The IEEE International Conference on Distributed Computing Systems (ICDCS '19)
- The International Symposium on Quality Electronic Design (ISQED '17, '18, '19)
- IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC '15, '16, '18)
- International Symposium on Cyberspace Safety and Security (CSS '18)
- IEEE International System-on-Chip Conference (SOCC '15, '16, '17, '18)
- ACM Conference on Computer and Communications Security (CCS '17, '18)
- International Conference on Science of Cyber Security (SciSec '18)
- EAI International Conference on Security and Privacy in Communication Networks (SecureComm '16, '17, '18)
- The International Test Conference in Asia (ITC-Asia '17, '18)
- The 27th International Conference on Computer Communication and Networks (ICCCN '18)
- ACM Student Research Competition at ICCAD (SRC@ICCAD '16, '17)
- The 30th International Conference on VLSI Design and 16th International Conference on Embedded Systems (VLSID '17, '18)
- IEEE International Symposium on Nanoelectronic and Information Systems (iNIS '15, '16, '17)
- Smart Card Research and Advanced Application Conference (CARDIS '17)
- Hardware and Architectural support for Security and Privacy workshop (HASP '17)
- The 1st International Workshop on Energy-Aware Computing and Communication (ECC) for Networked Cyber-Physical Systems (NCPS) '17
- International Workshop on Assured Cloud Computing and QoS Aware Big Data (WACC '17)
- ACM Asia Conference on Computer and Communications Security (ASIACCS '17)
- IEEE International Workshop on Information Forensics and Security (WIFS '16)
- International Conference on Communication and Network Security (ICCNS '16)
- Network and Distributed System Security Symposium (NDSS '16)
- International Verification and Security Workshop (IVSW '16)
- International Symposium for Testing and Failure Analysis (ISTFA '16)
- IEEE International Conference on Computer Design (ICCD '12, '15, '16)
- 37th IEEE Real-Time Systems Symposium (RTSS '16)
- 14th International Conference on Applied Cryptography and Network Security (ACNS '16)
- Design Automation Conference (DAC '15, '16)
- The 28th Conference on VLSI Design and the 15th Conference on Embedded Systems (VLSI Design '16)
- Asia and South Pacific Design Automation Conference (ASP-DAC '16)

- The 13th International Conference on Information Technology (ICIT '14)
- The 23rd Asian Test Symposium (ATS '14)
- IEEE International Symposium on Hardware Oriented Security and Trust (HOST '14)
- IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems (DFT '12)