DSC 2018
The 2018 IEEE Conference on Dependable and Secure Computing
December 10—13 | Kaohsiung • Taiwan

Picture originated from: Kaohsiung City Government

Call for Papers (see http://dsc2018.nsysu.edu.tw/)

The IEEE Conference on Dependable and Secure Computing solicits papers, posters, practices, and experiences for presenting innovative research results, problem solutions, and new challenges in the field of dependable and secure computing. The whole spectrum of IT systems and application areas, including hardware design and software systems, with stringent relevant to dependability and security concerns are of interest to DSC. Authors are invited to submit original works on research and practice of creating, validating, deploying, and maintaining dependable and secure systems. The scope of DSC includes, but is not limited to, the following topics:

- Advanced Persistent Threat (APT)
- Network Attack and Defense Techniques
- Botnet and Intrusion Detection
- Cryptographic Methods and Toolkits
- Cyber attacks
- Software Vulnerabilities and Security
- Database Security and Privacy
- Embedded Systems and IoT Devices
- Mobile and Cloud Computing security
- AI and Big Data Analysis for security
- Malware Mutation
- Deep Learning for Attack and Defense
- Block Chain and Finance Security
- Security Hardware and Circuits
- Authentication and Authorization
- Soft-Error Analysis and Models
- CAD Algorithms and Tools
- Electronic Circuits and Systems
- Fault-Tolerance and Reliability
- Industrial Design Experiences
- Noise- and Power-Aware Designs
- Stochastic Circuits and Systems
- Temperature-Aware Designs
- Variable-Latency Designs

Experience and Practice

The DSC conference will also include a submission category for experience and practice papers on new findings in the two aforementioned topics. The PC will evaluate a submission to the experience and practice track with the understanding that it predominantly contributes to design knowhow or the extension of the community's knowledge about how the security protection of known techniques fares in real-world operations. Authors have to submit a 2-page paper along with a supplemental video to demonstrate the implementation and/or the practicability of the work. Topics of interest include, but are not limited to:

- Attacks on Information Systems and Digital Storage
- CSIRTs, Incident Analysis and Response
- Hacking Techniques and Countermeasures
- Honeypots/Honeynets
- Malware Analysis and Reversing
- Mobile Communications Security and Vulnerabilities
- Newly discovered vulnerabilities
- Offensive Information Technology
- Reverse Engineering, Forensics, and Anti-Forensics
- Spyware, Phishing and Distributed Attacks
- VLSI/CAD Design Knowhow

Manuscript Submission

Papers should be no more than 8 pages for regular papers and 2 pages for experience and practice papers. Papers must be written in English conforming to the IEEE standard conference format (US letter, two-column). All submitted papers will be peer-reviewed. Accepted papers will appear in the conference proceedings and will be eligible for submission to the IEEE Xplore Digital Library. Authors of selected papers will be invited to submit enhanced versions to IEEE Reliability magazine and journals.

Organizers

Honorary Chair
Der-Tsai Lee, Academia Sinica

General Chairs
D. J. Guan, NSYSU
Doug Tygar, UC Berkeley

Program Chairs
Chun-I Fan, NSYSU
Luc Claesen, U Hasselt, Belgium
Chun-Ying Huang, NCTU
Felix Wu, UC Davis

Workshop Chair
Chih-Hung Wang, NCYU

Publication Chair
Ming-Hour Yang, CYCU
Jia-Ning Luo, MCU

Publicity Chairs
Wen-Chung Kuo, NYUST
Morris Chang, U South Florida

Financial Chair
Chia-Mei Chen, NSYSU
Chun-Yuan Hsiao, KUAS

Local Arrangement Chairs
Wu-Chuan Yang, ISU
I-Te Chen, KMU

Steering Committee
Shiuhpyng Shieh, NCTU (Chair)
Doug Tygar, UC Berkeley
David Basin, ETH Zurich
Robert Deng, SMU, Singapore
Jerry Shyh-Jye Jou, NCTU
Chen-Yi Lee, NCTU

In association with:

TICD Taiwan IC Design Society

TWISC@NCTU

Important Dates

- Abstract submission due: May 1, 2018
- Paper submission due: May 12, 2018
- Paper acceptance notification: August 14, 2018
- Workshop/poster submission due: August 21, 2018
- Workshop/poster acceptance notification: August 28, 2018
- Camera ready: September 11, 2018