

# Fifth Annual Industrial Control System Security (ICSS) Workshop

The fifth Industrial Control System Security Workshop will be held in San Juan, Puerto Rico, Tuesday, December 10, 2019, in conjunction with the Annual Computer Security Applications Conference (ACSAC). ACSAC will be held at the Condado Plaza Hilton, San Juan, Puerto Rico.

Supervisory control and data acquisition (SCADA) and industrial control systems (ICS) monitor and control a wide range of industrial and infrastructure processes such as water treatment, power generation and transmission, oil and gas refining and steel manufacturing. Furthermore, the Industrial Internet of Things (IIoT) is rapidly expanding the interconnectivity of ICS environments and introducing many new threats. These environments have been identified as a key target of more generic threats (ransomware), along with more recent tailored nation-state threats targeting safety instrumented systems (Trisis).

The critical requirement for high availability in SCADA and industrial control systems, along with the use of resource-constrained computing devices, legacy operating systems, and proprietary software applications limits the applicability of traditional information security solutions. The goal of this workshop is to explore new techniques to improve the security-critical control systems in the face of emerging threats. Papers of interest including (but not limited to) the following subject categories are solicited:

- IIoT security
- Intrusion detection and prevention
- Emerging threats to ICS
- Vulnerability analysis and risk management
- Digital forensics for ICS/PLCs
- ICS oriented cybersecurity education
- Performance evaluation of security methods and tools in control systems
- Innovative ICS/SCADA testbed designs
- Supply chain vulnerabilities and protections

---

## Technical Paper Submissions

Submissions should be 5-10 pages, using the double-column ACM proceedings format (acmart) template available at <https://www.acm.org/publications/taps/word-template-workflow>, with the [sigconf, anonymous] options. Two additional pages can be used for the Appendix. Note that the reviewers are not expected to read the Appendix.

Submissions should not use older ACM templates (e.g., sig-alternate). If you encounter any problems with the acmart template, please contact [acmtextsupport@aptaracorp.com](mailto:acmtextsupport@aptaracorp.com). You can also report problems with the template to <https://github.com/borisveytsman/acmart/issues> so that they are reviewed by SIG volunteers. ,

All submissions must be anonymous. The submission website is at <https://easychair.org/conferences/?conf=icss19>.

## Publication

The accepted workshop papers will be published by ACM. The slides will be published on the ACSAC website. The extended version of selected papers will be invited to publish at the International Journal of Critical Infrastructure Protection, Elsevier.

## Important Date

Submission Deadline: ~~September 23, 2019~~  
**September 30, 2019 (extended)**

Acceptance Notification: October 28, 2019

Final Manuscript due: November 8, 2019

Workshop Date: December 10, 2019

Further details about the workshop can be found at the workshop web site:

<https://www.acsac.org/2019/workshops/icss/>

## **Organizing Committees**

### **General Co-Chairs:**

Harvey Rubinovitz, The MITRE Corporation

Adam Hahn, Washington State University

### **Program Chair**

Irfan Ahmed, Virginia Commonwealth University

### **Publicity Chair**

Julian Rrushi, Oakland University

### **Program Committee Members include:**

Alvaro Cardenas, UC Santa Cruz

Ernest Foo, Griffith University, Australia

Marina Krotofil, BASF

Sye Loong Keoh, University of Glasgow

Thomas Locher, ABB

Daisuke Mashima, Advanced Digital Science Center in Singapore

Tommy Morris, University of Alabama in Huntsville

Stephen McLaughlin, Samsung Research America

Igor Nai Fovino, Institute for the Protection and Security of the Citizen, Joint Research Centre

Julian Rrushi, Oakland University

Jared Smith, Oak Ridge National Laboratory

Saman Zonouz, Rutgers University

Magnus Almgren, Chalmers University

Neil C. Rowe, Naval Postgraduate School

Thuy Nguyen, Naval Postgraduate School

Raheem A Beyah, Georgia Tech

Hyunguk Yoo, University of New Orleans

Juan Lopez Jr, Oak Ridge National Laboratory

John Mulder, Sandia National Laboratories

## **Workshop Registration**

If you are interested in attending, please check off the appropriate box on the conference registration form and add in the Industrial Control System Security (ICSS) Workshop fee.