

# 4th International Workshop on Security Intricacies in Cyber Physical Systems and Services (INTRICATE-SEC 2016)

held in conjunction with the 30th International Conference on Advanced Information Networking and Applications (AINA-2016)

Crans-Montana, Switzerland

March 23-25, 2016

## Important Dates

- Submission Deadline: Oct. 3, 2015
- Author Notification: Dec. 20, 2015
- Final Manuscript: Jan. 20, 2016
- Author Registration: Jan. 20, 2016

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## Submission Guidelines

Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with published proceedings. Duplications or overlap with other published or submitted papers will be considered as grounds for rejection.

Papers should be submitted in Portable Document Format (PDF) only, edited using the two-column CPS Proceedings style, and may not be longer than 6 pages (including references and appendices). Templates are available at <http://www.computer.org/portal/web/cscps/submission>. All submissions must be made on the EDAS site <http://edas.info/N19859>.

Accepted papers will appear in the INTRICATE-SEC proceedings published by CPS. At least one author of each accepted paper must register and attend the INTRICATE-SEC workshop in person to present the paper. Failure to do so will result in the paper being excluded from the proceedings.

## Call for Papers

Cyber-physical systems (CPS) are ubiquitous in critical infrastructures such as electrical power generation, transmission, and distribution networks, water management, and transportation, but also in both industrial and home automation. For flexibility, convenience, and efficiency, CPS are increasingly supported by commodity hardware and software components that are deliberately interconnected and use open standard general purpose information and communication technology (ICT).

The long life-cycles of CPS and increasingly incremental changes to these systems require novel approaches to the composition and interoperability of services provided. The paradigm of service-oriented architectures (SoA) has successfully been used in similar long-lived and heterogeneous software systems. However, adapting the SoA paradigm to the CPS domain requires maintaining the security, reliability and privacy properties not only of the individual components but also, for complex interactions and service orchestrations that may not even exist during the initial design and deployment of an architecture.

An important consideration therefore is the design and analysis of security mechanisms and architectures able to handle cross domain interoperability over multiple domains involving components with highly heterogeneous capabilities.

This edition of the INTRICATE-SEC workshop aims to provide a platform for academics, industry, and government professionals to communicate and exchange ideas on provisioning secure CPS and services over resource constrained and low power lossy networks. In addition to invited talks, we seek novel theoretical and application-centered contributions focused on (but not restricted to) the following topics:

1. Security and Privacy for CPS
  - Anonymity and Pseudonymity
  - Authentication and Authorization
  - Trust & Identity Management
  - Privacy
  - Malware
2. Secure Service Platforms for CPS
  - Smart Grids, Demand management, and Scheduling
  - Energy management Models
  - Mobile web services and middleware
3. Secure Architectures for CPS
  - Data Modeling, Home Energy Management
  - Scalability, Reliability, and Safety
  - Resource Constrained and low power lossy networks
  - Unconventional / Biologically Inspired Models



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