



CALL FOR PAPERS – S4CIP 2017

2nd International Workshop on Safety & Security aSSurance for Critical Infrastructures Protection Paris, France - 29th April 2017

Co-located with IEEE EuroS&P: 2nd European Symposium on Security and Privacy
April 26–28, 2017

Web: <http://www.dimat.unina2.it/marrone/s4cip17.html>

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Modern society heavily relies on large, heterogeneous and complex software-intensive systems to support all kinds of daily activities. Services such as urban transportation, logistics, health-care, data communication, railway, aerospace, and power distribution, to name a few, are becoming more and more dependent on the availability of such infrastructures. Any discontinuity of service may lead to serious problems, from severe financial losses to fatalities or injuries; the causes have different natures, either human errors, unexpected acts of nature, or intentional attacks like sabotage. Safety and security (S&S) assessments in critical infrastructures measure how these disruptions are handled and what is the impact suffered by the critical infrastructure under stress. These assessments are normally performed using analytical or simulation-based techniques often addressing one single specific aspect at a time rather than studying these infrastructures in a holistic manner.

Workshop topics This workshop aims at providing a forum for people from academia and industry to communicate their latest results on theoretical advances, industrial case studies, practical scenarios, and lessons learned in the assurance of S&S for critical infrastructures. Since the special interest on S&S assurance, a special focus will be put on model-based approaches; to the joint modelling and analysis of both cyber and physical aspects of critical infrastructures; and to the definition of unifying modelling and analysis methodologies. Research papers focused on safety or security assurance only are also welcome.

The workshop is technically sponsored by the Technical Committee on Homeland Security of IEEE SMC (Systems, Man & Cybernetics) society.

Topics of interests are, but not limited to:

- **Methods and Methodologies:** Vulnerability and Risk Assessment; Model-Based Penetration Testing; Security Metrics Definition and Evaluation; RAMSS Analysis; Crisis and Emergency Management; Unifying Modelling Methodologies for Cyber and Physical Security; Resilience Engineering.
- **Modelling:** Stochastic Modeling; Formal Methods; Domain Specific Languages and Model-Driven Engineering; Multi-Level Hierarchical Modeling; Multi-Paradigm Modeling.
- **Analysis:** Quantitative & Qualitative Evaluation; Interconnections Among Non-Functional Aspects (e.g., Reliability vs. Safety, Security vs. Performance); Multiformal and Multisolution Processes; Resilience Analysis.



- **Domains:** Cyber-Physical Systems; Critical Infrastructure Protection; SCADA and Control Systems Security; Automotive; Homeland Security; Transportation, Manufacturing, Energy, Health and Banking Applications; Computer Networks and Cloud Infrastructures.

Important Dates

- Paper submission deadline: December 12th, 2016
- Notification to authors: January 18th, 2017
- Camera-ready papers: February 8th, 2017

Paper Submission Submitted papers will be reviewed by three members of Program Committee (or their sub-reviewers) and selection of accepted papers will be based on relevance, quality and originality.

Accepted papers will be published in a special IEEE proceedings for “IEEE EuroS&P Workshops” (pending approval). At least one of the (co)author(s) of each accepted paper is required to register and attend the conference to present the work. PDF versions of papers should be submitted through EasyChair submission system (<https://easychair.org/conferences/?conf=s4cip17>).

After the conference, extended versions of selected contributions will be considered for publication in a Special Issue of the International Journal of Critical Computer-Based Systems (<http://www.inderscience.com/jhome.php?jcode=ijccbs>). Those papers will undergo at least another review round.

Page Limit and Formatting Papers must not exceed 6 pages total (including the references and appendices). Papers must be formatted for US letter (not A4) size paper. The text must be formatted in a two-column layout, with columns no more than 9.5 in. tall and 3.5 in. wide. The text must be in Times font, 10-point or larger, with 11-point or larger line spacing. Authors are strongly encouraged to use the IEEE conference proceedings templates (available at http://www.ieee.org/publications_standards/publications/authors/author_templates.html). LaTeX submissions should use IEEEtran.cls version 1.8b, dated 2015/08/26, in Compsoc Conference Mode:

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\documentclass[compsoc, conference, letterpaper, 10pt, times]{IEEEtran}
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Failure to adhere to the page limit and formatting requirements can be grounds for rejection.

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