



## The 13th International Conference on Critical Information Infrastructures Security

September 24 - 26, 2018 - Kaunas, Lithuania

In 2018, the **International Conference on Critical Information Infrastructures Security** faces its 13<sup>th</sup> anniversary. CRITIS 2018 continues the tradition of presenting innovative research and exploring new challenges in the field of critical (information) infrastructures protection (C(I)IP), resilience and fostering the dialogue with stakeholders.

CRITIS 2018 aims at bringing together **researchers**, professionals from **academia**, critical (information) infrastructure **operators, industry, defence sector** and **governmental organisations** working in the field of the security of critical (information) infrastructure systems.

As in previous years, **invited speakers** will complement a programme of original research contributions. The conference invites the different research communities and disciplines involved in the C(I)IP space, and encourages discussions and multi-disciplinary approaches to relevant C(I)IP problems.

The **Projects' Dissemination Session** will be an opportunity of dissemination for ongoing European, multinational, and national projects.

Besides, this CRITIS conference has a special focus on current and future energy infrastructures within a special session **Energy infrastructure operators and stakeholders: key challenges and solution directions**, Invited key experts from the energy sector will share their experience in the field.

### CALL FOR PAPERS

**CRITIS 2018 covers three thematic foci.** Paper submission is encouraged but not limited to the following topics.

#### Topic 1: Technologies: Innovative responses for the protection of cyber-physical systems

- Critical (Information) Infrastructure Protection (CIP and CIIP)
- Cyber security in C(I) systems
- Self-healing, self-protection, and self-management architectures for C(I)
- Fault tolerant control for cyber-physical systems / C(I)
- Modelling and analysis of cyber-physical systems / C(I)
- Modelling, Simulation, Analysis and Validation approaches to C(I)IP

#### Topic 2: Advances in C(I)IP organisation: Policies, good practices and lessons learned

- International approaches to C(I)IP including identification of C(I) elements
- Risk management, impact and consequence analysis regarding C(I)
- Coherent prevention, preparedness / exercises, incident management / mitigation, and recovery approaches to C(I)
- Resilience and survivability of C(I) as complex cyber-physical systems
- C(I)IP policies at international, national and cross-border levels, e.g. public-private partnerships
- Cross-border issues regarding EU's Network and Information Security Directive
- C(I)IP R&D agenda at national and international levels
- Economics, investments and incentives for C(I)IP
- Defence of civilian CI and CII in conflicts with cyber warfare elements
- Forensics and attribution in attacked C(I)
- Infrastructure, architectural and technology changes in the energy sector which may impact the sector approach to C(I) or challenge other C(I)-sectors, e.g. smart grids and energy supply in smart city developments
- Impact of geopolitical & social factors and threats

#### Topic 3: Advances in Human Factors, decision support, and cross-sector C(I)IP approaches – focus on end-users

- Analysis of Human Factor and Security Awareness in C(I)IP
- Advanced decision support for mitigating C(I) related emergencies
- Social aspects and public communication in C(I)IP
- Psycho-social dimensions of crisis management and intervention with C(I)
- Training for C(I)IP and effective intervention
- Coping with Social Media in C(I)-related crisis management
- Recent trends in cyber economy (clouds, quasi-monopolies, e-currencies etc.) and implications for C(I) and C(I)IP

Definitions for the keywords used in this Call for Papers can be found in the online glossary **CIPedia©**

» **Deadline for full-text submission: 30 April 2018 at 23:59 CET**

Paper submission will be organized via the EasyChair conference system. All papers (full or short) need to be written in American English. The submitted paper must be formatted using the template offered by Springer LNCS and be compliant with Springer's guidelines for authors (see details at [CRITIS 2018 website](#)).

The conference pre-proceedings will appear at the time of the conference. All accepted papers will be included in full length in the pre-proceedings. As in **previous years**, it is planned that post-proceedings are published by Springer-Verlag in their Lecture Notes in Computer Science (LNCS) series. Accepted full papers will be included in full length in the post-proceedings.

## YOUNG CRITIS AWARD

Moreover, CRITIS aims to encourage and inspire early stage and open-minded researchers in this demanding multi-disciplinary field of research. Outstanding research performance demonstrated by young researchers may compete for the **Young CRITIS Award (YCA)**. Research papers submitted to compete for the Young CRITIS Award shall cover one or more of the subjects mentioned above. More about Application, Terms and Conditions at [CRITIS website](#).

## KEY DATES

Full-text paper submission	30 April 2018	Registration (opens)	1 June 2018
Notification of acceptance	18 June 2018	Early-bird registration (closes)	1 August 2018
Preliminary Programme	25 June 2018	Regular registration (closes)	16 September 2018
Camera-ready papers	9 September 2018	Late registration (closes)	21 September 2018

### Programme Chair Supporting Chairs

Eric Luijff, TNO (retired) and Luijff Consultancy, the Netherlands  
 CI Resilience: Marianthi Theocharidou, EC JRC, Italy  
 Human Factor and CIP: Grigore Havarneanu, UIC, France  
 SCADA Security: Simin Nadjm-Tehrani, Linköping University, Sweden  
 Modelling & Simulation in CIP: Erich Rome, 2E!SAC and Fraunhofer IAIS, Germany  
 Interconnected Infrastructures and Systems of Systems: Enrico Zio, Politecnico di Milano, Italy and Ecole Centrale Paris, France  
 IoT Security: Sokratis K. Katsikas, NTNU, Norway and University of Piraeus, Greece  
 Energy CIP: tbd

### Local Co-Chairs

Inga Žutautaitė, Lithuanian Energy Institute, Lithuania

### Steering Committee Chairs

Ričardas Krikštolaitis, Vytautas Magnus University, Lithuania  
 Bernhard M. Hämmerli, TU Lucerne and ACRIS GmbH, Switzerland  
 Javier Lopez, University of Malaga, Spain

### Publicity Chairs

Stephen D. Wolthusen, Royal Holloway, UK and NTNU, Norway  
 Cristina Alcaraz, University of Malaga, Spain  
 Rolandas Urbonas, Lithuanian Energy Institute, Lithuania

### Venue

Vytautas Magnus University  
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