Track 7 - Enhancing Protection of Critical Infrastructures

Protection of critical infrastructures is a multi-dimensional problem that requires consideration of a broad range of different views. A thorough analysis should be built on general theoretical methods for risk assessment and risk mitigation but should at the same time be domain specific. Developed protection methods should be tailored to the form of disruption, i.e., specific for intentional attacks, disasters, or system failures. The ongoing digitalization of infrastructure requires the incorporation of knowledge about communication network vulnerabilities their interactions with other infrastructures. Finally, it is important to understand people’s reactions to reduced functionality of critical infrastructures to influence their behavior to reduce the impact on society.

This track aims at improving existing approaches and developing new approaches to critical infrastructure protection through interdisciplinary collaboration and, particularly, through practitioner collaborations. It targets researchers focusing on (cyber-)security, risk modelling, incident response and resilience, human behavioral modeling, as well as practitioner discussions that concern the applicability of such research approaches.

TRACK FORMAT

The paper presentations will follow a traditional format of presentation followed by Q&A. Considering the current situation, online presentations may be possible. In that case, talks should be recorded before the conference and speakers will join a synchronous online Q&A using video conferencing software. A discussion session will conclude the panels to allow authors and interested audiences to exchange ideas on the protection of critical infrastructures.

TRACK TOPICS

Submissions should seek to improve our knowledge of the protection of critical infrastructures by:
- Identifying optimal protection methods for critical infrastructures
- Incorporating incident response & recovery methods
- Simulating responses to incidents involving critical infrastructures
- Improving domain specific language / classification of incidents
- Examining issues related to critical infrastructures that enhance their resilience during disasters

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