

Special Issue

The Role of Cyber–Physical Systems in Critical Network Infrastructure (CNI)

Message from the Guest Editors

This Special Issue addresses the growing need for secure, resilient, and trustworthy CPS applications, particularly within energy-focused domains. Submissions should focus on how to design, monitor, and protect mission-critical systems using integrated cyber–physical architectures and advanced security measures. Topics of interest for publication include, but are not limited to, the following:

- Cyber–physical system applications;
- Smart grid and renewable energy security;
- Cyber–physical system security and resilience;
- IT–OT convergence;
- Industrial control system (ICS) security;
- AI and machine learning in cyber–physical systems;
- Connected autonomous vehicle security;
- Cyber–physical system threats and attack models;
- IoT security;
- Cyber range and applications in the CNI;
- Blockchain for CPS security;
- Privacy in CPS and IoT networks;
- Cybersecurity in critical infrastructure;
- Risk management and vulnerability assessment in CPS;
- Threat detection and response in CPS;
- Cybersecurity.

Guest Editors

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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