

Special Issue

Diagnosis of Faults and Attacks in Industrial Control Systems for Energy Production and Distribution

Message from the Guest Editors

Dear colleagues, In the modern world, more and more often intelligent networks connect processes, machines, products, suppliers and customers. In industrial control systems this trend exhibits itself in using sensors and actuators connected with the controller via a network. Furthermore, the control algorithm could be located on the computing cloud (Control as a Service). Such solution, whilst providing undoubtful benefits in terms of cost, flexibility, ease of maintenance; also poses problems which need to be addressed, for instance: resilience of control actions, and security of information flow and information processing. Traditionally, cybersecurity is considered the domain of Information Technologies (IT). However, similar problems are well known in the domain of Industrial Control Systems (Operational Technologies—OT)—namely the problems of detection and isolation of faults (FDI). This special session focuses on the IT-OT convergence, which allows for efficient monitoring and regulation of industrial processes from the perspective of faults within the system (OT) but also cyber-attacks directed from outside (IT).

Guest Editors

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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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