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

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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).



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Special Issue



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Message from the Editor-in-Chief

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