## Special Issue

## Practical Diagnosis and Fault-Tolerant Control of Energy Systems: Towards a Sustainable Transition

### Message from the Guest Editors

This Special Issue aims to present the developments and solutions brought by the emergence of new technologies, based on the analysis of big data and artificial intelligence, with the application of fault-tolerant control, to ensure good control of the behavior of these energy systems, even in the presence of faults. The aim is to promote scientific and technological transfer while ensuring sustainable development with innovative solutions and high-energy efficiency using applied automation tools. The topics of interest include, but are not limited to, the following: Robust fault-tolerant control strategy;

Diagnostic decision making;

Digital twin and IoT technology;

Energy storage and conversion systems; Failure analysis and fault diagnosis and prognosis;

Fault-tolerant control application (electric vehicles, electrical machines, power converter);

Integrated fault estimation;

Intelligent fault-tolerant control strategy; Intelligent data acquisition; Machine learning and multi-agent systems; Modeling and identification;

Monitoring and observer-based fault-tolerant systems; Sustainable energy system (solar, wind, biomass, hydraulic, and hybrid)

#### **Guest Editors**

Prof. Dr. Ahmed Hafaifa

Dr. Obaid S. Alshammari

Dr. Abdelhamid Iratni

### Deadline for manuscript submissions

closed (5 January 2023)



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### **About the Journal**

### 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.

### Editor-in-Chief

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