



8TH International Conference on Control, Automation, and Diagnosis



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May 15-17, 2024
Paris, France

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CALL FOR PAPERS SPECIAL SESSION ON

Fault Diagnosis, Prognosis, and Sustainable Control of Renewable Energy Systems

for ICCAD'24
May 15-17, 2024, Paris-France

Session Co-Chairs:

- Professor Lotfi Saidi, University of Sousse - Tunisia, lotfi.saidi@ieee.org
- Professor Carlo Cecati, University of L'Aquila, L'Aquila - Italy, carlo.cecati@univaq.it
- Professor Mohamed Benbouzid, University of Brest - France, Mohamed.Benbouzid@univ-brest.fr
- Dr. Eric Bechhoefer, GPMS International Inc, Vermont - USA, eric@gpms-vt.com

Session description:

This special session deals with the problem of the development of reliable and robust fault diagnosis and fault-tolerant control schemes of renewable energy systems (RES) through data-driven and physical model-based approaches.

The goal is to improve the safety, reliability, and efficiency of renewable RES, thus avoiding expensive unplanned maintenance costs, the detection, and identification of any types of abnormalities in an early stage, predicting potential faults and the remaining useful life of the RES components, and implement resilient control and management for minimizing performance degradation and economic cost, and avoiding dangerous situations, is a crucial challenge.

The topics of interest include, but are not limited to:

- Development and implementation of fault diagnosis/Prognosis and fault tolerant control strategies for RES problem (from the modeling and identification to diagnosis/Prognosis and fault tolerant control approaches).
- RES failure, aging, remaining useful life estimation.
- Feature extraction and analysis.

SUBMISSION

Papers must be submitted electronically for peer review by: **December 15, 2023**
<https://www.iccad-conf.com/submission/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).