

Special Issue

Embedded System Applications in Solar Photovoltaics

Message from the Guest Editor

The majority of the available research concerning embedded systems in the solar energy field have attempted to use and integrate recent techniques and technologies to solve certain problems, such as monitoring, fault diagnosis, optimization, and control. The embedded systems play a mission-critical role in solar energy applications and contribute to advance and develop the research conducted this sector. This Special Issue aims to focus on the application of embedded systems in photovoltaic installations, including stand-alone, grid-connected, and hybrid systems. The real-time integration of such methods into reconfigurable circuits, microcontrollers, microprocessors, and the Android App are invited for submission. Researchers are encouraged to submit high-quality papers related to the following topics:

- 1.Artificial intelligence and Internet of Things for photovoltaics ;
- 2.Android and IOS Apps for photovoltaics;
- 3.Embedded machine learning and deep learning for: 1)Monitoring systems;
- 2)Fault-detection and isolation techniques;
- 3)Fault-diagnosis methods (such as areal inspection, electrical, and images);
- 4)Energy-management methods;
- 5)Optimization and control methods.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2023)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

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