



Embedded System Applications in Solar Photovoltaics

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 August 2023)

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.





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Editor-in-Chief

Prof. Dr. Marc A. Rosen

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Message from the Editor-in-Chief

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