Special Issue

Fail-Safe Electric Drives and Safety-Related Issues

Message from the Guest Editors

Electrical drives for transportation, civil, and industrial applications must guarantee operation in emergency conditions. In critical events, such as faults, floods, explosions, fires, and earthquakes, electric drives must be operated to prevent further damages and, very often, even to guarantee the minimal operation of the plant or of the vehicle in order to help save human lives. Electrical components and systems must be designed to operate in critical conditions or to withstand faults, extreme temperatures, and pressures. This Special Issue is dedicated to the analysis of electric drives and drive components under these conditions and welcomes scientific contributions in this emerging area. Topics of interest for publication include, but are not limited to the following:

- Fail-safe transformers, electrical machines, and cables;
- Multi-phase electric machines and drives;
- Magnet-less electrical machines;
- Risk assessment of electrical drives and components;
- Fire performance of powertrains and power switches;
- Electric drive diagnosis;
- Communications for emergency critical operations.

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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.

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