Special Issue

Control, Operation and Protection of Multiphase Machines and Drives

Message from the Guest Editors

Modern electric drives suffer more restrictive requirements due to the new role of the present-day green industrial applications in our life. For instance, electric vehicles and clean energy generation systems based on multiphase systems are already considered real alternatives to conventional mobility and electric generation. This situation has promoted the use of electric drives with high reliability and efficiency, as well as with extra operation modes. In this regard, multiphase electric drives can benefit from this more demanding scenario, thanks to their intrinsic advantages over conventional three-phase systems. This research activity has studied these systems from different perspectives, such as the implementation of high-performance control schemes (in pre- and post-fault situations), the management of the fault occurrence, the specific design of multiphase machines and drive topologies, or the development of additional modes of operation. Attending to this promising scenario, the main objective of this Special Issue is to show new advances and developments in the field of multiphase electric drives to the scientific community and industry.

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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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