Special Issue

EMC Simulation and Modeling in Electrical Power Systems

Message from the Guest Editors

The recent extraordinary development of renewable energies, associated with the development of systems for recharging electrical vehicles, has started an evolution in electrical power systems that is only at its beginning. In this evolutionary context, issues related to electromagnetic compatibility (EMC) are crucial topics that should be transversally afforded in an ever more complex electrical system. The focus of this Special Issue is manifold, ranging from classical EMC topics, such as those related to “evergreen” EMC issues, e.g., (but not limited to) lightning modeling and protection, geomagnetic interferences, grounding and power line carrier over MV and HV lines, to more recent aspects, like those covering Intentional EMI, EMI from HVDC systems and filters dealing with power quality issues. Academic scientists, industry researchers and Ph. D. students are invited to submit original theoretical and/or applications-oriented contributions concerning any EMC issue relevant to power systems.

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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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