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Planning and Operation of Electrical Energy Systems under Uncertainties

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Message from the Guest Editors

With the massive integration of renewable generators and highly unpredictable consumptions, the planning and operation of electrical systems have evolved from a deterministic to a stochastic approach. In this context, the conventional tools historically used in these systems need to be revisited in order to be adapted to these uncertain environments. Concepts such as robust or risk-averse optimization have gained importance in the planning and operation of electrical systems to manage the unpredictability of consumptions, generation, or energy pricing. The level of uncertainty even increases when different energy carriers are considered, since the stochastic behaviour of various energy systems is combined. In this sense, this Special Issue aims to cover the most recent advances in uncertain management in electrical systems, comprising planning and operation tools in addition to market strategies and forecast techniques. In this sense, this issue is expected to collect original research works as well as comparative and review studies in this field.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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