Special Issue

Recent Advances in Electrical Power and Energy Systems

Message from the Guest Editors

Modern electric power and energy systems are undergoing a transition from unidirectional power supply patterns to multi-energy and multi-link collaboration. This Special Issue is intended for the presentation of new ideas, advanced theories, and experimental results in the field of modern energy system planning, operation scheduling, resilience enhancement, and multi-energy market architecture design, service, and theory in practical uses. Topics of interest for this Special Issue include, but are not limited to, the following:

- Aggregation schemes for DERs and energy storage units
- Flexible demand-response schemes to simulate the participation in energy systems
- Artificial intelligence applications in energy systems
- State estimation techniques in electric power and energy systems
- Protection and fault location in distribution networks
- Resilience and robust operation of energy systems
- Distributed multi-energy trading, market mechanisms, and business models
- Decarbonization technologies and approaches to IES planning and operation.

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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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