Special Issue

Energy and Power Systems: Control and Management

Message from the Guest Editors

Traditionally, only loads are variable, and an electric grid's stability is controlled by centralized generators. However, growing environmental concerns have led to the increased integration of Renewable Energy Sources such as photovoltaic, wave, and wind technologies. These are considered Variable Energy Sources because their generation is inherently influenced by weather conditions, which introduces new complexities in grid management. The problem has been further exacerbated by the worldwide increase in energy demand, putting additional strain on the grid. To address this, Demand Side Management techniques have played a crucial role in maintaining grid stability without requiring additional generation capacity. Today, the evolution of the smart grid, which is characterized by its intelligent, responsive, dynamic, flexible, and adaptive nature, is seen as the largest and most complex man-made system. This advanced grid enables better integration of renewable energy and more efficient energy distribution. However, as with any continuously evolving system, there are ongoing challenges and opportunities for improvement.

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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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