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Power systems are evolving to the networks with proliferated penetration of renewable energy resources to leverage their environmental and economic advantages. However, due to the stochastic nature of renewables, the management of the rapidly increasing uncertainty and variability in power system planning and operation is of crucial significance. This paper ...

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Primary energy has the potential to bring challenges to the reliability, economic, and eco-friendliness of global electric power systems. The concept of electric power security are proposed, including many factors that are not considered in power system reliability analysis, such as coal supply for power system, fuel price for electricity power market, carbon emissions of ...

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With the rapid development of power electronics technology, microgrid (MG) concept has been widely accepted in the field of electrical engineering. Due to the advantages of direct current (DC) distribution systems such as reduced losses and easy integration with energy storage resources, DC MGs have drawn increasing attentions nowadays. With the increase of ...

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Traditional experimental economics methods often consume enormous resources of qualified human participants, and the inconsistency of a participant's decisions among repeated trials prevents investigation from sensitivity analyses. The problem can be solved if computer agents are capable of generating similar behaviors as the given participants in experiments. ...

The development and utilization of renewable energy is an important remedy for the worldwide fossil energy crisis and environmental pollution issues [].Due to the volatility and randomness of renewable energies, such as the wind and solar power, integration of such energy resources into power grid imposes great challenges on the secure operation and power quality ...

Due to the strict requirements of extremely high accuracy and fast computational speed, real-time transient stability assessment (TSA) has always been a tough problem in power system analysis. Fortunately, the development of artificial intelligence and big data technologies provide the new prospective methods to this issue, and there have been some successful ...

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At present, renewable energy technologies are being rapidly developed worldwide, especially, wind power experiences a dramatic growth. The European Wind Energy Association (EWEA) has set a target to meet 28.5 % European electricity needs with wind power by 2030 [1-3] nmark, which currently supplies more than 28 % of electricity demand from wind, ...

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With increasing energy consumption, the importance of developing renewable energy sources is highlighted. Among different renewable energy sources, the photovoltaic (PV) energy source is considered one of the most

promising clean energy sources because of its wide distribution and ease of utilization [1,2,3,4,5].The curve for power versus voltage or power ...

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The oscillations in a power system can be categorized into free oscillations and forced oscillations. Many algorithms have been developed to estimate the modes of free oscillations in a power system. Recently, forced oscillations have caught many researchers' attentions. Techniques are proposed to detect forced oscillations and locate their sources. In ...

JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY, VOL. 9, NO. 6, November 2021 operate. However, from the perspective of modeling, it may be too complicated if we consider the temporal behavior of the ambient temperature change and its impact on the risk of cascading failures. Therefore, we consider a simplified sce-

Energy storage (ES) has been considered as the key source of flexibility to support the integration of renewable energy. Previous studies have demonstrated the substantial system cost savings by the deployment of ES, including both investment and operation of generation, transmission and distribution infrastructure. However, this societal benefit may not be realized ...

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The objective of this paper is to model a hybrid power system for buildings, which is technically feasible and economically optimal. With a view to promote renewable energy sources, photovoltaics and wind turbines are integrated with the grid connected building. The system is modeled and the optimal system configuration is estimated with the help of hybrid ...

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JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY, VOL. 8, NO. 4, July 2020 which computes the final estimated states using the intermediate variables from the second stage. Finally, a DSE method based on parallelized stream computing on the real-time cloud platform is proposed in [21]. In the computation, the

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