Patent Search

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Abstract:

STATISTICAL MACHINE LEARNING MODEL BASED ON DISTRIBUTION NETWORKS FOR RENEWABLE ENERGY PRODUCTION AND INTEGRATION Abstract: Solar and wind two examples of decentralised renewable energy sources that are essential for decarbonizing the energy system and lowering carbon emissions. As additional renew sources and flexible demand response are included into the smart grid, operation situations become increasingly complex and dynamic. This complicates network de planning issue can become laborious and difficult to resolve if every possible effect is explored. As more businesses adopt digital technologies, machine learning has a crucial approach for improving business operations. An example of such a sector is the electric power systems sector. In the current world, electric networks increas both renewable and nonrenewable energy sources. Renewable energy sources are challenging to deploy due to their variability and inability to be predicted. As part c solution to these issues, energy consumption must be estimated using soft computing approaches. Due to the strong relationship between electricity use and the cor other energy sources such as natural gas and oil, it is crucial to make accurate estimates regarding future electricity consumption. In this study, we pooled the finding several investigations into how individuals utilise renewable energy and other sources of energy. Several unique approaches of prediction are placed against one ano results of each are evaluated.

Complete Specification

Description:Descriptions

Energy systems are frequently anticipated, created, and simulated using machine learning models. In energy systems, more and more machine learning models are developed and implemented. Over the past two decades, this trend has increased steadily. This trend has not changed thus far. In this paper, we propose a new classification of machine learning models and applications used in the energy industry, as well as the current state of the art in this subject. A new method is utilised locate the ML models, which are then categorised based on the ML modelling strategy used, the type of energy employed, and the application domain. A survey of t pertinent literature generated an in-depth investigation and evaluation of how successfully machine learning models operate and how they are used, as well as a discussion of the most significant barriers and future research prospects. The authors also find that hybrid ML models enhance the accuracy, robustness, precision, generalizability of ML models applied to energy systems. It has been demonstrated that hybridization is an efficient way for strengthening prediction models, espec renewable energy systems such as solar power, wind power, and biofuels. Utilizing hybrid models powered by machine learning to forecast energy demand has pro be tremendously advantageous for energy efficiency and, by extension, energy governance and sustainability. An energy system is a collection of parts that have be planned, designed, and built to achieve something with energy, such as producing, controlling, or altering it. Many different types of matter, including but not limite mechanical, chemical, thermal, and electromagnetic matter, can be utilised in energy systems. Consequently, they may debate numerous forms of energy, including renewable and alternative sources. When it comes to decision-making, the development of energy systems encounters substantial difficulties. These challenges mu addressed in order to attain a variety of frequently contradictory objectives, such as functional performance, efficiency, financial load, environmental impact, etc. Sir there are so many data collectors in the energy industry, there is more data than ever before. Practically every element of the energy industry currently use smart se

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Department of Industrial Policy & Promotion,
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Government of India

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FIELD OF INVENTION	COMPUTER SCIENCE
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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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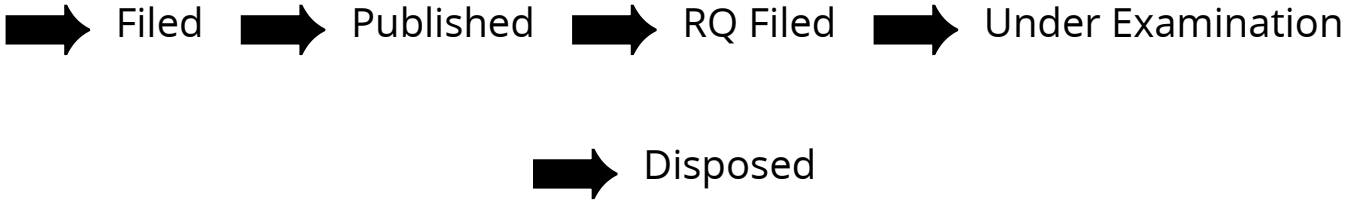

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