Patent Search

Invention Title	MACHINE LEARNING BASED APPROACH TO STUDY THE POSITIVE ASPECTS OF VARIOUS BIOENERGY SYSTEMS
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Abstract:

Bioenergy is widely considered a sustainable alternative to fossil fuels. However, large-scale applications of biomass-based energy products are limited due to challer to feedstock variability, conversion economics, and supply chain reliability. Machine learning has proven to be a powerful tool for deriving insights from data. In this r describe ways in which machine learning has been leveraged to facilitate the development and operation of sustainable energy systems. We first provide a taxonomy learning paradigms and techniques, along with a discussion of their strengths and limitations. We then provide an overview of existing research using machine learni sustainable energy production, delivery, and storage. Finally, we identify gaps in this literature, propose future research directions, and discuss important considerati deployment.

Complete Specification

We Claim:

1. Machine Learning Based Approach to Study the Positive Aspects of Various Bioenergy Systems claims to analyze the adaptability and flexibility of ML in the bio context.
2. The conversation of claim 1 aims to assess the recent applications of ML in bioenergy and biofuel conversion.
3. The conversation of claim 1 aims to identify the future direction of ML in bioenergy and biofuel conversion.
4. ML has the potential to predict and optimize the highly complicated nonlinear bioenergy systems, which are usually difficult to build models based on experien theory for accurate predictions.

View Application Status