

methods rely on the availability of large-scale historical weather data (e.g., temperature, humidity, and wind speed) and often suffer from the following shortcomings:

- 1) They require large-scale historical data to guarantee forecast accuracy while acquiring massive weather data is limited for many utilities;
- 2) There is a need to balance data adequacy with avoiding over-fitting problems.

Due to effectively reducing the volume of data used, feature selection is proven to be an effective solution to these limitations [1]. However, the optimal features fluctuate depending on weather conditions; thus, choosing a single set of fixed features under all circumstances will result in a sub-optimal solution. Consequently, it is essential to develop a framework for predicting solar generation that is adaptable to changing weather conditions. This study aims to build a dynamic model for solar forecasting based on Deep Reinforcement Learning (DRL). The developed model yields optimal features for day-ahead or hour-ahead solar irradiance forecasting that are adapted to different weather patterns.

To demonstrate the new ideas proposed in this paper, we will first discuss the existing applications of Reinforcement Learning (RL) in generation forecasting. Current applications can be grouped into three categories: 1) optimizing the parameters of existing forecasting models [2], [3]; 2) optimizing time-series forecasting results [4]; 3) real-time selection of optimal predictive models [5], [6]. The authors in [2], [3] optimized the initial parameters of an RL-based neural network (NN) predictive model to avoid local minima when training a NN model. A hybrid model for short-term wind speed forecasting is developed in [4], which combines Empirical Wavelet Transform (EWT), Deep Network, and RL for improved forecast results. Upon decomposing the original data into different sub-data, RL determines the best forecasting results among the results from each sub-data. However, this approach necessitates a significant amount of computing power, whereas more straightforward probabilistic methods, such as the Bayesian approach, can achieve similar goals. Alternatively, in [5], [6] the authors proposed using several forecast models, each generating a different forecast result. An RL agent determines the best model depending on real-time conditions. In the aforementioned studies, RL has been utilized solely to improve the accuracy of the existing forecast models. This improvement comes at the cost of increased computational expense, only to result in a slight improvement in accuracy. This paper develops a fundamentally different approach to utilizing RL to reduce the computational burden of data-driven forecast models.

RL has proven to be an effective tool for feature selection [7], [8], [9]. However, its performance is limited in higher dimensions, such as those anticipated in solar irradiance prediction. Combining RL and Deep Learning for advanced DRL-based feature selection provides the benefit of reliably capturing minimal discriminating features for solar irradiance forecasting, reducing computational cost, and improving forecast performance. The deployment of DRL also allows dynamic feature selection, which implies that the optimal features change according to the conditions at the time of the forecast. As indicated in Fig. 1, the optimal dynamic features are used to forecast solar irradiance.



Fig. 1. Structure of the developed DRL-based dynamic feature selection method for solar irradiance forecasting.

The case studies presented in this paper have shown that the optimal features for forecasting solar irradiance during rainy conditions differ from those for sunny days. These results motivate the objective sought in this paper, which is to identify the minimum number of features for different weather patterns, and explore the feasibility of extending DRL for this purpose.

The main contributions of this paper can be listed as follows:

- 1) Developing a novel DRL-based method to identify a reduced set of optimal data for the prediction of solar irradiance. The optimal data used for prediction change dynamically, based on the local weather conditions;
- 2) The developed model can dramatically reduce the required data volume for an accurate forecast. Unlike traditional Artificial Neural Network (ANN)-based forecast models, the method presented in this paper generates similar forecast accuracy with much fewer data;
- 3) Case studies using real-world data demonstrate that the developed feature selection methodology strongly adapts to various weather conditions.

The rest of this paper is organized as follows. The state-of-the-art methods in solar generation forecasting are discussed in Section II. Details of the developed DRL-based model for solar irradiance forecasting are discussed in Section III. Case studies are presented in Section IV, followed by conclusions and future research in Section V.

II. STATE-OF-THE-ART METHODS IN SOLAR GENERATION FORECASTING

Numerous recent efforts have aimed to forecast solar irradiance, which can be grouped into two main categories: 1) physics-based and Machine Learning (ML)-based methods. Physics-based models are classified into three main categories: models based on cloud imagery [11], models based on satellite data [12], and numerical weather prediction (NWP) models [13]. Nevertheless, the forecasting effectiveness of the physics-based models is limited by the volume of accessible data, i.e., the forecast efficiency is deficient since a considerable amount of raw data is required.

ML-based approaches have recently become common to estimate solar irradiance with large-scale historical data [14]. Among the existing methods, supervised learning, unsupervised learning, and RL are three main categories of interest in the research community. In terms of the supervised learning methods, Support Vector Machine (SVM), Regression, and Hidden Markov Model (HMM) are compared by the authors in [15] with diverse datasets from different locations for short-term solar irradiance forecasting. Similar comparisons are carried out in [16]

Reinforcement Forecasting Weather

Michael Hoelscher



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Table of Contents Reinforcement Forecasting Weather

1. Understanding the eBook Reinforcement Forecasting Weather
 - The Rise of Digital Reading Reinforcement Forecasting Weather
 - Advantages of eBooks Over Traditional Books
2. Identifying Reinforcement Forecasting Weather
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reinforcement Forecasting Weather
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reinforcement Forecasting Weather
 - Personalized Recommendations
 - Reinforcement Forecasting Weather User Reviews and Ratings
 - Reinforcement Forecasting Weather and Bestseller Lists
5. Accessing Reinforcement Forecasting Weather Free and Paid eBooks
 - Reinforcement Forecasting Weather Public Domain eBooks
 - Reinforcement Forecasting Weather eBook Subscription Services
 - Reinforcement Forecasting Weather Budget-Friendly Options

6. Navigating Reinforcement Forecasting Weather eBook Formats
 - ePub, PDF, MOBI, and More
 - Reinforcement Forecasting Weather Compatibility with Devices
 - Reinforcement Forecasting Weather Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reinforcement Forecasting Weather
 - Highlighting and Note-Taking Reinforcement Forecasting Weather
 - Interactive Elements Reinforcement Forecasting Weather
8. Staying Engaged with Reinforcement Forecasting Weather
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reinforcement Forecasting Weather
9. Balancing eBooks and Physical Books Reinforcement Forecasting Weather
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reinforcement Forecasting Weather
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reinforcement Forecasting Weather
 - Setting Reading Goals Reinforcement Forecasting Weather
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reinforcement Forecasting Weather
 - Fact-Checking eBook Content of Reinforcement Forecasting Weather
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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