

Is virtual reality an educational tool for solar photovoltaic energy systems?

Author to whom correspondence should be addressed. This paper presents a comprehensive and systematic review of virtual reality (VR) as an innovative educational tool specifically for solar photovoltaic energy systems.

Can virtual reality improve solar PV education?

Therefore, we reviewed the use of virtual reality (VR) technology in solar PV education. Our review demonstrates a strong interest among most studies in using VR as a key tool for providing an interactive and immersive learning experience, thereby enhancing users' understanding of PV energy systems.

Can deep reinforcement learning optimize photovoltaic and energy storage system scheduling?

Provided by the Springer Nature SharedIt content-sharing initiative This paper proposes a deep reinforcement learning-based framework for optimizing photovoltaic (PV) and energy storage system scheduling. By modeling the co

Is there a need to improve solar PV education curricula?

According to our systematic review, we found that there is a need to improve curricula in line with recent technology in solar PV energy education.

This paper proposes a deep reinforcement learning-based framework for optimizing photovoltaic (PV) and energy storage system scheduling. By modeling the control task as a Markov ...

Abstract As the demand for renewable energy professionals rises, there is an increasing need to cultivate a workforce that possesses both theoretical knowledge and hands-on technical skills. ...

Then, the energy storage optimization operation strategy based on reinforcement learning was established with the goal of maximizing the revenue of photovoltaic charging stations, ...

This microcredential course provides an in-depth exploration of various photovoltaic (PV) system types and their applications across residential, ...

A DRL model based on diversity in experience for building load management with energy storage and solar PV is proposed. The raw data are grouped into clusters and a selection algorithm ...

This microcredential course provides an in-depth exploration of various photovoltaic (PV) system types and their applications across residential, commercial, and industrial settings. Through ...

This paper presents a comprehensive and systematic review of virtual reality (VR) as an innovative educational tool specifically for solar photovoltaic energy systems. VR technology, with its ...

A deep reinforcement learning model based on diversity in experience is proposed for training agents to manage the load of buildings with energy storage and solar PV.

Article on Energy management of buildings with energy storage and solar photovoltaic: A diversity in experience approach for deep reinforcement learning agents, published in Energy and AI ...

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