

Title: Solar cluster fine-tuning system

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To mitigate this, multi-point and optimization-based aiming strategies, encompassing deterministic, metaheuristic, and machine learning methods, have been developed to achieve more ...

In this paper we describe SelfTune, a framework that automatically tunes such parameters in deployment. SelfTune piggybacks on the iterative nature of cluster managers which, through multiple ...

In this exploration of solar system optimization, we will explore its intricate facets and uncover why it is an indispensable practice for anyone embracing solar ...

A recent study has demonstrated the effectiveness of an aiming strategy wherein a group of heliostats use a single parameter for the entire cluster and achieve the desired heat ux prole by adjusting the ...

In this exploration of solar system optimization, we will explore its intricate facets and uncover why it is an indispensable practice for anyone embracing solar energy.

While fine-tuning excels in specific, stable scenarios requiring deep expertise, its lack of adaptability makes it less suited to the broader demands of ...

Cluster-specific forecasting models were then developed using Bayesian Optimization (BO) to fine-tune ensemble learning algorithms. LightGBM achieved the best performance in the cold ...

Finally, this study demonstrates how the calculated values function as a starting point for implementing the aiming methodology in different solar field and receiver combinations.

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