



Intelligent Agent for Temperature-Controlled Server Racks in Five Central Asian Countries

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Experiments on the real-world rack temperature dataset show that I2A-RI outperforms other state-of-the-art models since it takes the advantage of the ability to infer the potential...

Combining the CFD numerical model with the ADB model for server temperature prediction can improve the efficiency of server prediction and facilitate subsequent optimization ...

In response to these issues, we propose a rack temperature prediction model that can be implemented after the CRAC is shut down. Our model is ...

In this article, we employ the active ventilation tiles (AVTs), i.e., ordinary ventilation tiles with attached fans, to enhance the local cold air delivery and improve the cooling performance.

In this paper, models to predict hot spot temperature and to estimate cooling air's working parameters of racks in data centers were established using machine learning algorithms ...

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Explore how reinforcement learning enhances data center cooling efficiency by dynamically optimizing workload placement and HVAC control. Learn how multi-agent RL reduces ...

In response to these issues, we propose a rack temperature prediction model that can be implemented after the CRAC is shut down. Our model is constructed by machine learning with data ...

Its AI Engine applies the data to algorithms and calculates the required adjustments in airflow to maintain the correct temperature for each aisle of racks. It goes beyond alerting human operators to ...



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