

**REINFORCEMENT LEARNING ALGORITHM BASED INTELLIGENT
SCHEDULING OPTIMIZATION METHOD AND SYSTEM FOR
HETEROGENEOUS METADATA**

ABSTRACT

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The present invention provides a reinforcement learning algorithm based intelligent scheduling optimization method and system for heterogeneous metadata, and relates to the technical field of heterogeneous data. The method includes: constructing a multi-level dynamic feature extraction mechanism, performing feature decomposition on the multi-source metadata information by a self-attention mechanism to generate a feature matrix set, and performing feature fusion by a transformer encoder; training a dual-channel neural network scheduling strategy model based on a fusion feature vector, performing hierarchical optimization in combination with deep reinforcement learning, and generating a scheduling action candidate set and assessing the performance thereof. The method effectively improves the system load balance, access latency, resource utilization rate and data locality, and has obvious technical advantages.

Drawing accompanying abstract: Fig. 1

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