

Cloud-edge collaborative computing (CECC) is a critical way to solve the real-time problems in the Medical Internet of Things (MIoT) and Industrial IoT (IIoT) applications. However, ...

This necessitates the integration of end, edge, and cloud computing technologies to combine their different advantages. Despite the existence of numerous studies on edge-cloud collaboration, a ...

Under the cloud-edge-end collaborative computing, we consider simultaneously optimizing system cost and Quality of Service (QoS). To accomplish this, we further formulate the two ...

However, edge computing, especially edge and cloud collaborative computing, are still in its infancy to announce their success due to the resource-constrained IoT scenarios with very limited algorithms ...

Mobile applications can leverage high-quality deep learning models such as convolutional neural networks and deep neural networks to provide high-performance cognitive ...

Through varying the number of edge servers and the number of tasks, the simulation results in a cloud-edge collaborative environment indicate that the proposed scheduling approach outperforms the four ...

Abstract--As more IoT applications gradually move towards the cloud-edge collaborative mode, the containerized scheduling of workflows extends from the cloud to the edge. However, given the high ...

With the popularization of the cloud-edge collaborative environment, the optimization of container scheduling has become a crucial challenge for enhancing system performance. Existing methods ...

Collaborative resource scheduling between edge terminals and cloud centers is regarded as a promising means of effectively completing computing tasks and enhancing quality of service. In this paper, to ...

?: Container virtualization technology represented by Docker has been widely used in the industry due to its advantages of lightweight, fast deployment, and easy portability. This paper considers the ...

To provide benchmarks for the performance of our demand response allocation scheme for the edge-cloud system, we compare it with the following seven baselines, with the first ...

Restricted by size, weight, and power, the node devices at the edge have weak computing resources. In this paper, we propose gEdge, a cloud-edge collaboration framework for heterogeneous computing ...

However, in multiple task performances, federated nodes deployed at the edge of IHS are constrained by

computing and storage resources, as well as increased privacy breach risks. On ...

With the rapid development of the Internet of Things (IoT), terminal-edge-cloud collaborative computing (TECC), a hierarchical distributed computing model, has become an effective ...

With the continuous development and combined application of cloud computing and artificial intelligence, some new methods have emerged to reduce task execution time for training ...

A cloud-edge-device collaborative framework is developed. According to the energy consumption situation at the customer end, this paper effectively combines load monitoring with ...

The virtual power plant aggregates and controls the distributed new energy of the power system. The high-speed and high-precision processing and analysis capabilities of the cloud edge collaborative ...

Mobile applications can leverage high-quality deep learning models such as convolutional neural networks and deep neural networks to provide high-performance cognitive services. Prior work on ...

Abstract With the popularization of the cloud-edge collaborative environment, the optimization of container scheduling has become a crucial challenge for enhancing system ...

Cloud-native computing principles such as virtualization and orchestration are key to transferring to the promising paradigm of edge ...

gEdge is an innovative heterogeneous computing framework designed for edge-cloud collaborative computing scenarios. It introduces container technology to seamlessly offload GPU container tasks ...

Cloud-edge collaboration leverages the edge server's real-time response capabilities and the cloud server's robust data processing power to ...

The first paper titled "Container-based data-intensive application scheduling in hybrid cloud-edge collaborative environment" by Tang et al. I propose a scheduling framework (DICS-OPT) ...

In this paper, we introduce collaborative edge intelligence (CEI), a novel distributed computing paradigm, to support ultra-low latency and large-scale deployment of autonomous vehicles. Existing ...

Through an in-depth analysis of the multi-cluster container scheduling problem based on image layers in the cloud-edge collaborative computing environment, this study proposes ...

Edge-Cloud Polarization and Collaboration ??? AI ? Edge-Cloud ?????????????? Edge-Cloud ??????????????
...

Under the conditions that the storage space of edge computing nodes is insufficient and the network environment is more stable, we propose a lightweight edge container image storage ...

Container virtualization technology represented by Docker has been widely used in the industry due to its advantages of lightweight, fast deployment, and easy p

Edge-cloud collaborative computing system (ECCS) can combine the advantages of edge computing system's low computing latency and cloud computing system's high computing ...

Owing to the technology of 5G and beyond, collaborative edge computing-as-a-service has enabled trillions of interconnected edge applications. It has also become a prospective paradigm for providing ...

Bibliographic details on Container-based task scheduling in cloud-edge collaborative environment using priority-aware greedy strategy.

Abstract: In the scenarios of Internet of things, large traffic and so on, traditional cloud computing has the advantages of strong resource service ability and the disadvantages of long-distance ...

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