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(57) Abstract :
METHOD AND SYSTEM FOR RESOURCE OPTIMIZATION AND ALLOCATION IN METAVERSE COMPUTING ENVIRONMENTS
ABSTRACT The present invention introduces a pioneering approach to address the dynamic challenges of managing computing resources within the metaverse. Leveraging advanced machine learning algorithms, the system analyzes user interactions and predicts future resource demands in real-time. This predictive capability facilitates dynamic allocation of processing power, memory, and network bandwidth, ensuring optimal resource utilization. A real-time optimization engine, coupled with adaptive learning, enables instantaneous adjustments to resource allocations based on evolving user activities and metaverse dynamics. The inclusion of a network monitoring component further enhances the system's adaptability to varying network conditions. The user interface empowers administrators to configure resource policies, providing a comprehensive solution for intelligent and responsive resource management. This invention significantly enhances user experiences, maximizes resource efficiency, and establishes a scalable framework for diverse activities within the metaverse.

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