Abstract

The complex distributed environment is a major hindrance in the service delivery process as per the customer requirement. Provisioning resources with minimalist conflict and on-demand pay-per-use service has occupied the center stage of service computing in recent times. The paper tries to address the issue of resource provisioning in a dynamic environment by adopting a biologically inspired approach. Using a linear combination of two different models the paper elucidates strategies for allocation of resources in stable and volatile scenarios. Agent technology plays a key role in controlling the parameters for optimized allocation.

References

Resource Allocation Modeling in Abstraction using Predator-Prey Dynamics: A Qualitative Analysis


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**Index Terms**

Computer Science  Distributed Computing

**Keywords**

Cloud computing  Optimization  Multi-agent  Predator-prey Dynamics