Optimal QoS based Web Service Choreography using Ant Colony Optimization

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Abstract

Web services have become an integral part of any web based application, due to their availability and ease of use. As the number of web services start increasing uncertainty arises as to which service should be selected. Even though this can be solved by ensuring the appropriate quality of service parameters, performing these checks on numerous services would prove to be a tedious task and time consuming. Hence this paper proposes an efficient QoS based service choreography, that selects the web services on the basis of the quality parameters and cost. A modified Ant Colony Optimization is used for this purpose. The modification is brought about by modifying the evaporation rate of each of the links depending on certain parameters. An effective result that satisfies the QoS constraints is obtained within the stipulated time.

References


Index Terms

Computer Science  Web Services
Keywords
Web Service Choreography; QoS based service selection; ACO