

AN EFFECTIVE GUIDANCE METHOD FOR WEB SERVICE SELECTION USING PSO AND MA

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ABSTRACT

In service oriented architecture there may be many web services providing similar properties, effects, capabilities, and interfaces. Hence selecting a service which is as per the user requirement is a difficult task. Differentiations among the competing services are obtained through quality of service attributes. This allows the user/consumer to select the best service as per his/her requirement. This paper has considered this issue and discusses about the use of these quality of service attributes which are nothing but the non functional parameters for guiding the user in selecting the service according to his/her requirement. The non functional parameters which are considered for this are nothing but response time, reliability, and execution time of the competing web services. For this in the paper proposed two algorithms particle swarm optimization and memetic algorithm. These two algorithms are used for above non functional parameters. Using graphical representation the comparison of competing web services for their respective non functional parameters is shown. Both approaches are compared for these three non functional parameters.

KEYWORDS: Particle Swarm Optimization, Memetic Algorithm, Web Service, Qos