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Web Service Discovery Method By Optimization Technique

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ABSTRACT- The paradigmatic shift from a Web of manual interactions to a Web of programmatic interactions driven by Web services is creating unprecedented opportunities for the formation of online Business-to-Business (B2B) collaborations. In particular, the creation of value-added services by composition of existing ones is gaining a significant momentum. Since many available Web services provide overlapping or identical functionality, albeit with different Quality of Service (QoS), a choice needs to be made to determine which services are to participate in a given composite service. At present, a trustworthy two-phase web service discovery mechanism based on collaborative filtering and QoS. The observer agents will collect records of user behavior, including querying and invoking web services and monitor actual QoS, and then store the profile information and historical behavior. This approach tries to a combine method with semantic concept to build ontology of web services for describing data relationship between data and web service. By combining this semantic concept to build ontology with Collaborative Filtering and Qos Ranking by using a optimization techniques called Ant Colony Optimization and decision tree algorithm. We further employ users' usage data of their accessing web services to analyze users' behavior. A service recommendation method which considers both users' behavior for enhancing the recommendation performance.