

عنوان مقاله:

QoS-Based Web Services Composition using an Improved Genetic Algorithm

محل انتشار:

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خلاصه مقاله:

Web Services Composition is one of the most important issues in service oriented architectures. For answering to majority of complicated business process, it might not have been just a single service, so several services must have combined to reach a suitable one. Composite service will generate by combining single web services. Each web service may have different implementations with similar functions, but something which makes it different from other similar services is the quality of service. In this study, QoS based web service composition is under study and architecture for automated web service composition is proposed. In this architecture, at first users enter their functional and non-functional requirements into the system by users interface, then an improved genetic algorithm (IGA) is developed for optimal composition of web services in order to indulge users' requirements in a suitable time. Proposed approach is implemented and evaluated by C# language. The evaluation results have shown that the IGA outperforms is better than simple GA when the number of abstract services are large

کلمات کلیدی:

Web Service; Web Service Composition; Web Service Selection; Quality of service; Improved Genetic Algorithm; Meta-Heuristic Algorithm

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