عنوان مقاله:

QoS-Based web service composition based on genetic algorithm

محل انتشار:

مجله هوش مصنوعی و داده کاوی, دوره 1, شماره 2 (سال: 1391)

تعداد صفحات اصل مقاله: 11

نویسندگان:

.m AllamehAmiri - *Department of Electrical and Computer Engineering, Yazd University, Yazd, Iran*

.v Derhami - *Department of Electrical and Computer Engineering, Yazd University, Yazd, Iran*

.m Ghasemzadeh - *Department of Electrical and Computer Engineering, Yazd University, Yazd, Iran*

خلاصه مقاله:

Quality of service (QoS) is an important issue in the design and management of web service composition. QoS in web services consists of various non-functional factors, such as execution cost, execution time, availability, successful execution rate, and security. In recent years, the number of available web services has proliferated, and then offered the same services increasingly. The same web services are distinguished based on their quality parameters. Also, clients usually demand more value added services rather than those offered by single, isolated web services. Therefore, selecting a composition plan of web services among numerous plans satisfies client requirements and has become a challenging and time-consuming problem. This paper has proposed a new composition plan optimizer with constraints based on genetic algorithm. The proposed method can find the composition plan that satisfies user .constraints efficiently. The performance of the method is evaluated in a simulated environment

کلمات کلیدی:

Web Service, Web Service Composition, Quality of Service, QoS, Genetic Algorithm