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# 基于目标距离评估的启发式Web Services组合算法

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## Abstract

With the growing number of available Web Services, it is an imperative task to study how to compose Web Services based on the requirements of the customers, which is the main focus of this paper. The proposed method automatically composes Web Services directly according to the customers' requirements, and then executes the composed services to achieve the customers' goals. Based on the historic records of Web Services compositions, this method uses a heuristic approach to adjust the composition scheme. Experimental results show that the method is well fits for the volatile environment and yields better performance over other algorithms.

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## 摘要

随着可用Web Services数量的快速增长,如何根据用户的需求来自动组合Web Services,生成满足用户需求的组合业务,成为一项亟待解决的课题.提出了一种基于用户需求目标距离评估的启发式算法,通过该算法,动态调用Web Services来自动生成满足用户所需目标的Web Service组合,同时,该算法还能够根据Web Services组合经验,对以后的Web Services组合方案进行调整.实验结果表明:该算法能够很好地适应网络上Web Services的不稳定情况,与同类算法进行性能比较,也显示出基于目标距离评估的算法具有较好的性能.

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