学术研究

一种基于Web的服务组装构件模型

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基于web的服务组装正成为一种流行的组装风格。许多已有的工作提出将服务业务逻辑和用户界面封装为 一个基于web的服务构件,并在基于web的环境中组装这些构件。这些构件模型在复用,尤其是构件验证、适配以 及复合构件的支持方面仍存在许多局限。提出一种新型构件模型以支持基于web的服务组装。首先,该构件模型将 ▶加入引用管理器 用户界面和服务业务逻辑分离以获得更好的适配性;其次,开发人员不仅可以在业务逻辑的层次组装这些构件, 还可以在用户界面的层次进行组装。该构件模型支持实时组装以实现及时、有效的验证和适配,同时还支持将组 装结果发布为一个新的可复用的服务构件。

关键词 复用 服务组装 混搭

分类号

Towards a Component Model for Web-based Service Composition

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Abstract

The web-based service composition is becoming a popular composition style in Service Oriented Computing. Many existing work proposed encapsulating service business logic and User Interface (UI) into a single web-based service component and assembling these components in web-based environment. However, these component models are yet limited in terms of reusability, especially for component qualification, adaptation and composite structure support. This paper proposes a component model for web-based service composition. Firstly, we present a well-structured component model that decouples the UI and service business logic for better adaptation. Secondly, developers are able to assemble components not only at business logic level but also at UI level. The component model supports on-the-fly composition, which provides a quick and effective feedback way for qualification, and also supports the composition result to be published as a new component for further reuse.

Key words reuse service composition mashup

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