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企业信息系统业务构件设计研究

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Abstract

Component-Based development method is thought to be the latest outcome to tackle software crisis, but in practice it didn't reach the expectation. The methodology of component design is not perfect due to the lack of explicit guidance to build the practical application. In this paper, a business component design method is given, which uses the Cluster Algorithm to identify two kinds of business components (process component and entity component) and takes the requirement models as the data source of Cluster Algorithm samples. Several formulations are also given to calculate the value of samples' relationship. "Core Entity" was chosen to achieve better accuracy of Business Component identification, and granularity formulation is given to reduce the complexity of Business Component. The design steps of Business Component Interface are described at last.

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摘要

基于构件的软件开发被认为是解决软件危机的最新成果,但其实践并未达到预期效果:构件设计的方法学还不完善,缺乏对实际应用的明确指导.给出一种业务构件设计方法,应用聚类算法来识别两类业务构件(过程构件和实体构件),以需求模型作为聚类分析样本点的数据来源,并给出样本点关联值的计算方法.通过引入"聚集点实体"的概念改进识别业务构件的准确性,给出构件粒度的计算公式,以降低业务构件的复杂度.最后描述了业务构件接口的设计步骤.

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