

# Internet环境下的多数据库协作管理模型

苗春雨, 史美林

清华大学 计算机科学与技术系, 北京 100084

收稿日期 修回日期 网络版发布日期 2006-12-12 接受日期

**摘要** 设计了一套基于协同工作的数据管理系统模型, 用于解决Internet环境下多数据库的管理问题. 在该模型的基础上, 为了保证所有用户都能获得正确的数据, 提出了协同数据管理系统数据一致性的概念, 并在此理论基础上设计了原型系统, 利用虚拟表屏蔽异构数据库的结构差异, 确保数据一致性模型的实现.

**关键词** [分布异构数据管理](#) [协同工作](#) [一致性模型](#) [虚拟表](#)

**分类号** [TP311.131](#)

## A cooperative model for multi-database under the Internet

MIAO Chun-yu, SHI Mei-lin

Dept. of Computer Science, Tsinghua Univ., Beijing 100084, China

### Abstract

Efficiently and effectively managing the distributed, heterogeneous and autonomous databases under web environment is a key issue for many applications such as grid systems. However, until now no prototype has been applied for databases under web environment without any restriction on local database characteristics, such as data consistency, subsequent control, security control and transaction, etc. In this paper, a data management model named CoDMS is developed to solve this problem. CoDMS is based on computer-supported cooperative work concepts and a data consistency model. Virtual tables are defined to control data consistency, that is, to make it possible to query and/or transfer data without considering local database characteristics. We have also developed a prototype based on CoDMS for web-based database management systems. We shall discuss subsequent security and transaction in the future. <BR>

**Key words** [web-based data management](#) [computer-supported cooperative work](#) [consistency model](#) [virtual table](#)

DOI:

通讯作者

### 扩展功能

#### 本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(182KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

#### 服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

#### 相关信息

- ▶ [本刊中 包含“分布异构数据管理”的相关文章](#)
- ▶ [本文作者相关文章](#)

- [苗春雨](#)
- [史美林](#)