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# 基于Multi-Agent技术的个性化数据挖掘系统

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摘 要：设计基于Multi-Agent技术的个性化数据挖掘系统,介绍了该系统构造的基本思想和Agent的状态转变关系及其它们之间的通信协议;利用用户Agent和挖掘Agent得到个性化数据挖掘系统MAS,并给出了系统的算法.该类系统的特点是:用Agent模拟人,实现用户在系统中的智能代理.结果表明,它能够实现数据挖掘的个性化服务功能,提供对用户真正有价值的知识,有效地避免了用户的重复劳动和精力耗费;同时,避免了系统对无用数据的挖掘,提高了系统的运行效率.

关键字：数据挖掘; Multi-Agent;个性化;知识发现

# Research on personalized data mining system based on Multi-Agent technology

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**Abstract:**A personalized data mining system is designed based on Multi-Agent technology, and the basic idea of constructing this system is described first. Then User-Agent is designed with detailed introduction of transition relations from one state to another of this agent and their communication protocol, and a MAS which is called personalized data mining system, is established with User-Agent and Mining-Agent. The algorithm, on which the system is mainly based, is given. The system is characterized by the fact that an agent serves as a person in data mining system. The application results show that personalized knowledge can be mined in the system and the knowledge, which is really useful for the user, is given. And the system preferably avoids repeated work and unwanted energy of the user. At the same time, the case of mining of the irrelevant data seldom occurs, thus the system can work efficiently.

**Key words:**data mining; Multi-Agent; personalized; knowledge discovery in database

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