

Intelligent Data Gathering/Sifting : In the Global Information Structure

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By:

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Synopsis



Intelligent agents are programs that act on behalf of their human users in order to perform laborious information gathering tasks, such as locating and accessing information from various on-line information sources, resolving inconsistencies in the retrieved information, filtering away irrelevant or unwanted information, integrating information from heterogeneous information sources and adapting over time to their human users' information needs and the shape of the InfoSphere.

This study provides an overview of intelligent agent technology for use in mediating information, information filtering, and negotiation between agents during multimedia-based presentations to the end user via the web. Research techniques from Distributed Artificial Intelligence (DAI) are explored to provide methods for coordinating activities of agents as well as provide mechanisms for conflict resolution among these agents. Additional agent messaging languages, such as KQML, are also being considered. It also covers important issues such as the nature of Heterogeneous Distributed Databases and Knowledge Discovery in Databases and Data Mining.

In Chapter 1 we give a general introduction to the research work. Chapter 2 looks at the heterogeneity of Distributed Databases and the KDD process. In Chapter 3 we delve into the world of Intelligent agents and give a specification of a data scavenging tool that gathers data from DBs across the WWW. In Chapter 4 we give a design of the data scavenging tool. Chapter 5 contains conclusions and suggestions for further research work.