

# Applying Intelligent Agent in the Process of Electronic Commerce : Case of Supply and Demand Negotiation Process in Notebook

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## ABSTRACT

As the transition of environment, today's business needs to face the challenge of market variation, global competition and sophisticated technology. The process of enterprise is based on negotiation between supplies and customers or the departments of the organization, which is dependent on information exchange. Therefore, in order to make the enterprise has the ability to deal with market variation, ensure consistence, correctness and promptness of information exchange is a very important issue for enterprise. In the project, applying automatic and ceaseless technology of intelligent agent are used to make users who are in different geographical distribution or computer platform can cooperate to achieve their objective. In the project, the model of intelligent agent process management which relevant literature related to intelligent agent's definitions, properties and the operation of business tasks is induced. Define responsibility, permissions and protocols of the four roles in intelligent agent system by using the methodology of Agent Oriented Analysis and Design. Outside (means environment) and inside architecture of agents are all need to discuss when developing the agent system, but this methodology is short of discuss. Hence, we use Unified Modeling Language to solve this deficient, and perform analysis and design of intelligent agent system. Finally, by the case of supply and demand negotiation process in notebook industry for instance, implemented and tested the system model.

Keywords : Negotiation, Information Exchange, Intelligent Agent, Agent Oriented Analysis and Design, Unified Modeling Language

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