ABSTRACT
Due to personnel are fluid and cost of personnel is becoming more and more expensive, workflow automation has increased its productivity and reduce expenses effectively, it is the expectative objective of government and enterprise. Multi-agent System has become the standard paradigm in software development. Developers are able to construct more effective and flexible applications with agent characters, such as autonomy, initiative, reactivity, social ability and so on. The paper applies the Generic Workflow Production Structure provided by WfMC and combines multi-agent technology to present an agent-based workflow management system. This system is implemented by using JADE toolkit. The paper makes a conference information system as an example to construct the agent-based workflow management system. Agents that live in the system assist to handle tasks to reduce working time, cost and probable mistakes.

Keywords: workflow automation, Multi-agent System, Generic Workflow Production Structure, workflow management system
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