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Abstract
Agent technology has been widely accepted and used in years. However, due to the properties of software agents, the modeling capability of traditional Object- Oriented Analysis and Design methods are insufficient to describe agents' behavior and prosperities. Thus, we have seen the emergence of the field AOSE, Agent-oriented Software Engineering, and its accelerating progress there have been plenty of research results concerning the modeling methods and languages developed for agent systems.
This thesis proposes a new systematic modeling method, named U2MAM (UML2-based Multi-Agent Modeling). This method is based on the standard object-oriented modeling language, UML2, and uses extended UML2 for the agents' properties to support the modeling of mobile and multiple agent systems with guidelines included in each construction phase. To examine and show its feasibility and practicability, this thesis also provides an example, the construction of an internet collective-buying system, in each phase after the guidelines.
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