

A Review of Agent-Oriented Development Methodologies and Programming Languages/Frameworks

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Abstract

Agents are software systems and can be associated with an entity, framework, architecture and even languages. They are piece of program codes that are able to autonomously complete tasks. Before developing an agent, methodology to be used in development should be clarified and based on the methodology, suitable programming language and framework should be selected. This paper reviews three agent development methodologies (Prometheus, Tropos, and MaSE) and six agent-oriented programming languages/frameworks (MetateM, IndiGolog, Brahms, GOAL, JIAC, and Agent Factory).

Keywords: Computer Agents, Agent-Oriented Programming, Agent-Oriented Methodologies.

1. INTRODUCTION

Agents are entities with mental modules. They can have beliefs and capabilities also they are able to choose, and commit [1]. They are piece of program codes that are able to autonomously complete tasks. Autonomy is one of the properties that each agent has. It means the agent shall operate without direct human interference. Moreover, agents should be able to interact with each other or with humans. This characteristic is the social ability of an agent. Reactivity and pro-activeness are also two important property of each agent. Reactivity is to feel the environment and respond to environment changes in timely manner; and pro-activeness means exhibiting goal-directed behavior [2, 3].

Instantiated from Object Oriented Programming (OOP) paradigm, Agent-Oriented Programming (AOP) views the system as modules that communicate with each other by handling incoming-outgoing messages and by fixing the mental state of agents to consist components such as beliefs, capabilities, and decisions. AOP make a special framework. There are different limitations on the mental condition of an agent and they approximately match to constraints on their intellectual state [1]. When implementing agents as a system, they have to be capable of achieving sophisticated goals autonomously until they find a solution to complete the goal [2]. Capabilities of systems based on agents are large and it is a potential to exploit this technology. The successful future of agent-based systems depends on a complete and accurate analysis of its conceptual basis, structuring principles, and methods used for the design and development of agent systems. Therefore, having a methodology to support changes in requirements and new components is highly encouraged [4].

This paper reviews some methodologies and programming languages/frameworks which are used in developing agents.

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