

Formal Specification Language for Agent-Based Systems Essay

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Introduction

Software engineers have learned, from several incidents, that the behaviors of a system ought to be understood and documented before the system is placed in operation. One amongst such incidents that's associated with autonomous software agents especially is that the crash of Air France's airliner 320 at associate air show in Gregorian calendar month 1988. Airliner 320 was the first fly-by-wire rider craft within the world. In alternative words, it had been controlled by associate autonomous agent. The incident was caused by a conflict between the human pilot's instruction and the autonomous management by the software. While the pilot meant to fly over the landing field within the air show, the fly-by-wire management software appears to own instructed the air-craft to land, that was believed to be the reason behind the accident. Many years has passed and autonomous agents have gained a lot of wider applications, however, open queries stay concerning a way to specify autonomous agents' behavior and the way to verify and prove their properties so such tragedy are often prevented. Being autonomous, proactive and adaptive, associate agent-based system are often terribly difficult, and typically could

demonstrate emerging behaviors, that are neither designed by the developers nor expected by the users of the system.

The development of agent-based systems offers a new and exciting paradigm for production of sophisticated programs in dynamic and open environments, particularly in distributed domains such as web-based systems and electronic commerce.

What is [multi-agent system](#)?

A multi-agent system (MAS) is a distributed and concurrent system that consists of a number of individual agent or a monolithic system . An intel...

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