DEVELOPMENT OF MULTI-AGENT ORIENTED E-LEARNING SYSTEM

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ABSTRACT

E-learning is increasingly used in education to facilitate the teaching-learning process, but still there are some shortcomings therein. For example, applying the same learning strategies to all students in the class is a less effective decision. Agent technology is considered to be able to provide a dynamic adaptation to e-learning system. Using the nature of agent which is autonomous or independent, reactive or react to environmental changes, proactive or trying to reach the objective, flexible, has high durability, and able to interact with other agents was considered to be a very promising approach to overcome the challenges of modern education such as the example mentioned above.

Therefore, a Multi-Agent oriented e-learning system is designed. The system is designed using the Prometheus methodology and implemented using the JADE Agent Platform which uses Java Programming Language. From the experiments conducted, it is known that the inter-agent interaction and agent’s ability proved quite effective to be a constituent component of e-learning system.

Keyword: E-Learning, JADE Agent Platform, Multi-Agent System, Prometheus Methodology,
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