Abstract

Now a day's agents are more and more appears in computer science with different context and also with different meaning. The main acceptation of agents is due to the Artificial Intelligence and Distributed Artificial intelligence one, where the agents are essentially exploited as a one of the technique for developing special purpose systems that exhibit some kind of intelligent behavior. The main aim of this research is to implement distributed multi agent system using JADE platform. This system should allow the parameterization of the characteristics of each agent running on the system in order to simulate a virtual market buying and selling. In this research a scenario is created to simulate an electronic market place where multiple buyer and seller negotiate the purchase and sale of certain product to implement distributed multi agent system. The trading of the products will take into account several attributes such as price, delivery time, quality factor of the merchandise. Consist of an iterative process between the buyer and potential sellers. Each negotiation will begin with the publication of a need for a buyer, which meet all sellers the type of product ordered. The buyer will progressively select the best offer and the sellers tried to modify the conditions of sale to be chosen by the buyer. In addition to the sellers and buyers still exist a manager who will keep a
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simple record of reputation that each buyer / seller.

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Index Terms

Computer Science
Artificial Intelligence
Keywords

MAS  JADE  FIPA  ACL