Applying a new Communication Technique among Agents in Hospital Management System

Abstract

Nowadays, Multi Agent System (MAS) play a central role in the field of distributed artificial intelligence. MAS's applications go from electronic commerce, aircraft maintenance and business process management to email filtering. One of the important features in Multi Agent System is the communication among agent. The communication methods enable cooperation and coordination of agents in the system. The standard and important one is the Contract Net Protocol. Also, Round Contract method is created to overcome the limitations of Contract Net Protocol. This paper proposed a new communication technique among agents in MAS. This technique combines the advantages of both previous methods and avoids their disadvantages. All these techniques are applied to Hospital Management System that uses Multi Agents Systems. There is a comparison among these methods according to their performance.

References

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Index Terms

Computer Science Information Sciences

Keywords
Communication protocol Contract Net protocol Hospital Management System Multi Agent System

Round Contract method.