Abstract

This research has focused on studying The Educational Multi-agent System extensively to solve the problems of following up the daily performance of the student in relation to school activities and evaluation. The proposed system consists of four agents: Interface Agent, Data Management Agent, Supervisory Agent and Communication Agent. They are connected with each other by Agent Communication Language (ACL) including Knowledge Query and Manipulation Language (KQML). This system has been applied to a primary school with respect to the students of first, second and third grades. The proposed system improves the communication process between the school staff and parents that occurs an improvement of the scores obtained by these students and in a way that raised the performance rate by teachers and students.

References

1. Safiye TURGAY, "a multi-agent system approach for distance learning architecture ", The
Educational Supervisory System based on Intelligent Multi-Agents


3. Dr. Prashant M. Dolia, "Integrating Ontologies into Multi-Agent Systems", JOURNAL OF EMERGING TECHNOLOGIES IN WEB INTELLIGENCE, VOL. 2, NO. 1, FEBRUARY 2010.


13. G. B. Nunes, A. Cardoso1, A. Santos1,2, P. Gil1,3 "MULTI-AGENT BASED ARCHITECTURE FOR ROBUST SUPERVISION OVER WIRELESS SENSOR NETWORKS"


15. Karim Bouzouba1, Bernard Moulin2, Adil Kabbaj3, "CG-KQML+: An Agent Communication Language and its use in a Multi-Agent System", Computer Science Department and Research Center on Geomatics, Laval University.


17. Cyprian Foinjong Ngolah, "a tutorial on agent communication and knowledge sharing", University of Calgary.

Index Terms

Computer Science Artificial Intelligence
Keywords

Multi-Agen System (MAS), agents, supervision system, Agent Communication Language (ACL), Knowledgebase, Knowledge Query and Manipulation Language (KQML), intelligent agent.