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Computer aided diagnosis in cloud environment based on multi agents system

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In this speech we address solutions for the problems of the low accurate decision; low availability especially in maintains procedures and the scalability in online Computer Aided Diagnosis (CADs). Most CADs became available online and provide a high importance medical services which develop the health of the human beings. CADs are to increase the detection of disease by reducing the false negative rate due to observational oversights. The online CADs face three major problems: (1) The CADs cannot diagnose some diseases because the symptoms of these diseases are not available in the knowledge bases of this systems, (2) problem is the availability of CADs is depends on the web server which hosted them. Web server may possible to stop for maintenance that will implies to stop the CADs systems. (3) The problem is scalability related with the cost if their admins want to expand them to cover more medical problems. In this lecture we proposed a new framework to solve the above problems. The framework is composed of multi agents system to work on the environment of the cloud computing. The framework consists from three Sections: SaaS components, PaaS components and IaaS components. Each section has its own algorithms and procedures. To evaluate the resulted framework we make a survey in for 150 persons from medical health sector, students, specialists, physicians and other. The results pointed to good ratio of acceptance from the users.

Biography

Abbas M Al Bakry has completed his PhD in Computer Science (Artificial Intelligence) from the University of Technology, Baghdad, Iraq. Currently, he is the President of the University of IT and Communications in Baghdad, General Chair of the NTICT annual conference-Baghdad, Editor in Chief of *IJCI Iraqi Journal for Computers* and *Informatics*, Editor-in-Chief, *Intelligent Computing in the IJNC International Journal of Network Computing and Advanced Information Management and* Editor in *JCIT, AISS, JINT, IJACT, IJIIP* international journals.

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