Avatars “HHH” Technology Education Cloud Platform on Sliding Mode Based Plug-Ontology as a Gateway to Improvement of Feedback Control Online Society

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ABSTRACT

This article aims to show the possibilities of the use avatars “hhh” technology education cloud platform on Sliding Mode based plug-ontology. In the article the virtual learning technology, which is being developed at several universities is description. The technology is based on the understanding that e-education is becoming more common. Virtual educational environment, which is the core technology, is based on the concept of knowledge, which is closely associated with ontology considered in the course of disciplines. Communication in such a virtual educational environment is planned to organize on the basis of an avatar. Distinctive feature of our technology exists in the presence of feedback between the virtual educational environment and the student. In the paper are highlights of technology and results is use in virtual research collaboration works at the Astrakhan State University, Tomsk State University of Control System and Radio Electronics (Russian Federation), at All Armenian Internet University (Australian Federation and the Republic of Armenia), at Rohilkhand University (India) and at National Central University (Taiwan)

Keywords: Cloud Education Technology, Information and Communication Technology Processes, Information Knowledge Management System, Virtual Learning Space, Virtual Learning Environment

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INTRODUCTION

Under the information and communication technology processes (ICT processes) refers to business processes manage and control all the activities in the field of ICT, including life-cycle processes integrated circuits (ICS), the processes of quality management, change management processes, processes of learning and obtaining knowledge and etc. Process approach allows considering IT management with unified methodological positions and in the same time offers a series of practical tools applicable for a wide range of management tasks. Wide distribution of the process approach to management of ICT led to a number of process-oriented interrelated methods and standards, components now holistic body of knowledge, familiarity with which needed as managers in the field of ICT and ICT specialists. The article material can be regarded as an introductory and does not require any preliminary special knowledge. All the forms of modern education occur within the paradigm of interaction between the student-teacher. This paradigm defines a set of technologies, both the process of learning and interaction.

The word “technology” comes from Greek and means a science, a set of methods and techniques of processing of raw materials, semi-finished products, products and converting them into commodities. Modern understanding of the word and includes the application of scientific and engineering knowledge in solving practical problems.

Background

The primary means of ICT for informational environment of any education system is a personal computer, which is determined by the installed software. The main categories of software are system software, application software and tools for software development. To system programs, primarily include operating systems that provide interoperability with all other programs with the equipment and the interaction of the user’s personal computer with software. In this category also include overhead or service programs. The applications include software which is the tools of information technologies - technologies of work with text, graphics, tables etc.

In modern systems of education, widespread universal office applications and ICT tools: word processors, spreadsheets, training, presentations, database management systems, organizers, graphical and mathematical software packages, etc.

In the Internet there are other ICT tools, which include e-mail, mailing lists, newsgroups, chat, specialized websites and portals. Special programs have been developed for communication in real time, allowing after establishing a connection to transmit the text input from the keyboard and sound, image and any files. These programs allow you to organize joint work with remote users with the program that is running on the local computer. With the help of special equipment and software via the Internet you can conduct audio and video conferencing.

To ensure effective information search in telecommunication networks are automated search tools, which aim to collect data on information resources of the global computer network and provide users with a service quick search. Using search engines can search for documents of the World Wide Web, multimedia files and software, address information on organizations and people.

With the help of a network of ICT tools is possible a wide access to educational-methodological and scientific information, the organization of operational advice, modeling and research activities, and organization of virtual training sessions (seminars, lectures) in the real-time mode.
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