МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ КАФЕДРА ІНОЗЕМНИХ МОВ ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ ЦЕНТР

МАТЕРІАЛИ VIII МІЖВУЗІВСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ КОНФЕРЕНЦІЇ ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ

"TO LIVE IN A SAFER WORLD"

(Суми, 28 березня 2014 року)

The eighth scientific practical student's, postgraduate's and teacher's LSNC conference

processus de formation. Comme résultat, on a été développé un modèle conceptuel de système automatisé de planification des universités, est représentée sur la figure 1 (les attributs des entités dans le graphique), ce qui est logique d'un schéma de base de données pour le système projeté.

NANOTUBES

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Carbon nanotubes are long structures of cylindrical shape with a diameter from one to several tens of nanometers. They consist of one or several rolled into a tube hexagonal graphite planes. Sumio lijima synthesized them by the method of arc evaporation. In the mid-twentieth century there were two research teams from the USA and New Zealand.

Carbon nanotubes can be found in nature, for example, in shungite extracted in Karelia. The process of nanotube production is hard to control. It is accompanied by formation of carbon of some other forms. In the process of its production, there were used solutions of hydrocarbons and catalysts. The key feature of carbon nanotubes is their electrical conductivity. It is important for microelectronic devices because it facilitates the process of further reduction in size.

The form of nanotubes can be single-layer, multilayer, straight, spiral, with open and closed ends of cylindrical structure. Usually the length of nanotubes is from 10 to 1000 microns, but Renselayera Polytechnic Institute (USA) received a 20 cm nanotube.

For practical application the properties of nanotubes can be divided into several areas of use: physical, physico-chemical and mechanical.

Today nanotubes are used in the production of packaging materials. They are also used in sensors of fire-prevention system. They significantly increased their efficiency and accelerated response time in several times. Introduction of nanotechnology in production and scientific activities will increase the efficiency of these work areas and will bring computer engineering to a new level. In future their use will lead to miniaturization of various microelectronic devices.

THE EYE TRIBE TRACKER WILL CHANGE THE WORLD

Y. V. Tarasenko, AM-21 L. Y. Khmelik

The Danish company The Eye Tribe presents their last invention called the first device for inputting information with help of the human's eyes, which is really suitable for the mass use.

The Eye Tribe Tracker system consists of special software and hardware. The last is a sophisticated electronic device that looks like a small oblong dull black plate, connected with the PC by the USB cable.

The Eye Tribe Tracker has been created to improve "mutual understanding" between the electronics and the man with the help of technology, which will allow managing mobile devices and even computers by the eye movements. The control commands, of course, are based on the eye direction. This way you can control your music, manage the game, keep files under control, etc. The Tracker's field of use is very wide. Besides, this technology can be very useful for disabled people.

The price of the version of The Eye Tribe Tracker system, designed for the using in the environment of the operating system Windows, is only 99 dollars.

But there is A Software Development Kit for the software developers, which greatly simplifies the integration of The Eye Tribe Tracker system capabilities into the functions of existing and newly developed software, including computer games. The self-taught programmers with its help will be able to adapt existing interface of lots of applications, and talented professionals will create a lot of fundamentally new methods of control electronics by the eye