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## **SMARTHOME**

*Запорізька державна інженерна академія, кафедра ІМЛК*

Ten years ago we read about a house that was smarter than its owner. And today we understand that science fiction is just a described prospect of introducing the discoveries already made by engineers.

Today, no one is surprised that the TV, music center, air conditioning, lighting devices can be programmed and controlled at a distance by infrared rays using a remote control. In many telephone apartments, security alarms are reported to the owner of the house or to specialized services that an intruder has infiltrated the premises. Modern communication systems automatically forward incoming calls to people who are hundreds and thousands of kilometers away from home.

Recently, the domestic consumer more and more began to hear that the capabilities of the smart house system can greatly facilitate and simplify the worries about the comfort of the home, and also help protect the housing from the entry into it of unexpected guests. Believing such promises, of course, makes sense. Nevertheless, intending to install the system at home, it is useful to learn more about the possibilities of intellectual housing.

Speaking about what we can give the use of an innovative system for the relief of domestic work, we can name such opportunities as: easy to clean, cooking - a pleasure, in moments of rest and others. Using the artificial intelligence of a robotic vacuum cleaner, which can be programmed based on personal wishes, cleaning in the house will be much easier and faster. A computer refrigerator, with access to the Internet, will allow you to keep up with progress even in the kitchen. The system allows you to easily communicate in the network, during cooking, pick up for you recipes of dishes that can be prepared from the products that are available, and also will make a balanced diet of your useful nutrition. Going to spend time watching a movie, or a TV show, you can expect from an intelligent system to create the full effect of watching a video you are not at home on your favorite couch, but in a real cinema. By investing in intelligent automation, society not only raises the level of everyday comfort, but also ensures rational use of energy resources, extends the life of expensive equipment, real estate.

Intellectual building in the form in which it exists in developed European countries and overseas, remains alien to the mentality of most Ukrainian people. It does not at all follow from this that technical progress is on the wrong track and that our society does not need it only because only a few elite can use the fruits of progress. Intellectual "stuffing" at home can be much easier and perform limited functions. Moreover, it becomes urgently needed to maintain individual records and control over consumable energy resources, protect the home from attacks by intruders, and fire. Paradoxically, in a crisis economic situation, the intellectualization of residential and industrial premises contributes to the successful solution of material problems.

What is the cost of the above pleasure and how justified are the costs? The number of zeros in the called amount is able to confuse even a person with a wealth above the average. But only in the event that everything is done in full. You can save both on the control devices, and on the configuration of the system itself. When the nominal level of comfort and security is reached and the system is working, you will be sure that it will immediately begin to repay the debt and after a few years it will substantially pay off the debt. However, we live not only to save, but also to spend in our own pleasure.