M. Kasianchuk, research advisor: PhD in Physics and Math., As. Prof. L. Shtokhma, language advisor, PhD in Phil., As. Prof. Ternopil National Economic University

SMART HOME: COMFORT FOR SAVING LIVES

"Smart" objects are given the ability to connect in some way to the Internet, thus making it "smart". This development can range from your car, your watch, to things in your home.

The **aim** of our article is to consider the notion of "Smart Home" and some applications of Smart Home technology.

A smart home is also known as a Home Automation or Smart Building. In short, the technology in your house enables you to control your house remotely. A smart home consists of multiple smart applications. These applications are, in most cases, connected with each other and can be accessed through central points - laptops, tablets, smartphones or other smart devices. The smart applications can be used to execute various tasks in your house - control the temperature of your home, switch appliances on or off, control lighting or program other smart devices such as a smart BBQ grill. Smart Home appliances also have the possibility to include self-learning skills. With these appliances homeowners could be warned if any motion is detected in their homes while they're away or the Smart Home appliance can call the fire department in case of a house fire.

The future morning routine in your Smart Home could start with the preprogrammed: the shower water is already at a comfortable temperature, so you can immediately jump in. When you go downstairs your coffee will be set and already poured into a cup that comes from your smart coffee machine. Additionally, your toast will already be crisp and ready to consume. After your breakfast is finished, the smart fridge will detect if any goods are missing after breakfast and will put those on your shopping list. Your home will automatically detect when you leave your house and lock the doors, engage the security system and turn off the lights. During the day, you can remotely control your Smart Home and check in on your pets via webcams whenever needed. Then you can start preparing your pre-selected dinner, which will be finished by the time you get home.

In the past years there have been many developments within the domain of Smart Homes that focus on healthcare. Home health care services are traditionally designed to transfer data of a patient (blood pressure, body temperature or heart/pulse rate) to hospitals. Smart Homes could become a part of the home healthcare system in the future. The functions of this integrated system consist of the following:

- 1. Hospital-based health professionals giving teleconsultations and virtual visits.
- 2.Devices capable of integrated analysis providing support for making decisions and diagnoses, improving access to health care services and optimizing resource utilization for high-risk patients.

- 3.Hospital-based management only for acute illness or investigations, which cannot be undertaken at home.
- 4.Patients with the help of health professionals receiving care at home. From now home automation for the elderly is being implemented in more and more homes of older adults and people with disabilities to maintain their independence and safety. The Smart Homes provides elderly with the possibility of staying independent and it makes them feel more comfortable in their own homes.

So, these examples are just some of the many tasks that can be performed by Smart Home technology that is developing on and on. A smart home enables a personalized experience to your needs, schedules, and activities, simplifying the way you live day-to-day in your unique spaces and taking care of your lives.

REFERENCES

- 1. The Best Smart Home Devices for 2020 [Electronic resource]. Access mode:https://www.pcmag.com/news/the-best-smart-home-devices-for-2020
- 2. The 13 Best Smart Home Devices & Systems of 2020 [Electronic resource]. Access mode: https://blog.hubspot.com/marketing/smart-home-devices
- 3. Home automation [Electronic resource]. Access mode: https://en.wikipedia.org/wiki/Home_automation