emphasize that Brexit will not protect the country from refugees from Syria, because this phenomenon is very difficult to control. Adherents of the "divorce" with the EU point out that independently Britain will be able to conduct migration policies in its own way, without looking back at the EU laws and protecting exclusively its interests.

Scientific supervisor: Rozum M.I.,
Senior Lecture

UDC 004.453:004.8:004.056 (043.2)

Gerasymenko M.K.
National Aviation University, Kyiv

JAKCOM SMART RING R3

Materials and design

Jakcom Smart Ring R3 is a ring with a number of "smart" functions. This device is not rare or exclusive on the market but there are some distinguishing features though. Let me start with some technical characteristics:

- weight: 23g;
- NFC support;
- material: alloy with tungsten and ceramic coating;
- no battery, which means there aren't any problems with energy consumption;
- protection in compliance with standard IP68.

According to the information provided on the manufacturer's site, tungsten is added to metal to reinforce it. Besides, the metal is glass-like – it is small, smooth and quite flexible. According to the developer, the product doesn't deform when used. Due to its high conductibility, the material finds its best application in electrical devices and, which is important, retains its original color.

Also, there is no need to worry about possible allergic reactions to the metal since it's hypo-allergenic, so it won't cause any allergy-related problems when worn.

The creation and processing of the ring consist of a series of stages which include frame processing and clean up followed by laser engraving. All these operations are performed by CNC machine. It takes some 73 hours to produce one ring.

Scientists claim that wearing this ring does not do any harm. On the contrary, it's good for your health, contributing to better blood circulation and accelerating metabolism processes.

Germanium, volcanic magnet and "rock of energy" are placed inside the ring. Germanium is a natural element found in very small quantities on the Earth. Its main function is to protect human organism against harmful influence of environment, for example, air pollution. According to the developer, Germanium is placed in the ring from the inside. Volcanic magnet, another natural element, possesses healing properties contributing to healthy sleeping habits, improved blood circulation, relieved breathing for people suffering from asthma.

Smart" functions

According to the information available, a chipset in NXP MCV is used as a

processor having two cores. This solution allows simple and trouble-free use of the ring instead of ID-card for activating various functions – unlocking doors, parking, paying in public transport. You can also configure "smart" button which can activate some specific function or open an application For example, to take a picture you just have to bring a ring to a phone, so that the camera gets activated. You can also find an NPC module embedded in the ring. According to the developer, the module is compatible with any device, having a million of cycles of data recording due to which information can be kept during 10 years ensuring due security.

The undeniable advantage of smart ring R3 is the fact that you don't have to charge it. The "smart" ring can convert electromagnetic waves which are constantly around us into electricity.

Scientific supervisor: Yurchenko S.O.,
Senior Lecturer

UDC 004.4 (477) (043.2)

Grib M.O.
National Aviation University, Kyiv

SOFTWARE INDUSTRY IN UKRAINE

The analysis of strategic development of Ukraine shows that information technologies (IT) and software has a determining influence on innovative development of economy.

According to statistics, in Ukraine IT market operates 2,470 companies, employing more than 150 thousand people. As to the experts' estimates, the gross revenue of companies of the software industry is more than 12 billion UAH with an average growth of 30-40% annually. In accordance to international studies, Ukraine is among the top five global exporters of software products, yielding to India, China, Russia.

An important intellectual component of IT is the software. The development of software and services for their implementation in the technology-driven countries has become a self-sufficient industry and an essential element of the relevant national strategies. If the number of jobs in the global IT industry over the last six years has increased by 40%, then in the software industry – by 76%. Due to its peculiarities, the programming industry has become the center of the world economy's processes of globalization.

For the last decade, IT in Ukraine has been showing significant growth. Studies show that Ukraine is currently keeping its position among the most attractive outsourcing agents and is gradually moving to the top of the list.

Ukraine is the recipient of computer technology, programming tools, general software and application software solutions. At the same time, Ukraine is a supplier of specialists and the results of certain studies in the field of mathematics, computer science, cybernetics, linguistic technology, which are directly transmitted to foreign customers by performers for a relatively small remuneration, without registration of copyright.

The development of IT technologies in the country will contribute to the creation of