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SMART WEARABLE DEVICES
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Анотація
У статті розглянуто «розумні» ґаджети, що можна носити на собі, та їхні функціональні можливості, й користь для користувача.
Ключові слова: ґаджет, функції, користь.

Abstract
This article discusses smart wearable devices, their functions and benefit for user.
Keywords: device, functions, benefit.

A wearable device is a technology that is worn on the human body. This type of device has become a more common part of the tech world as companies have started to evolve more types of devices that are small enough to wear and that include powerful sensor technologies that can collect and deliver information about their surroundings [1].

Wearable devices are also known as wearable gadgets, wearable technology or simply wearables.

A wearable device is often used for tracking a user's vital signs or pieces of data related to health and fitness, location or even his/her biofeedback indicating emotions. Wearable device models may rely on short-range wireless systems such as Bluetooth or local Wi-Fi setups.

Different types of Wearables devices present in the market today!

• Head Mounted Display: Takes you to a different world of virtual reality. It provides virtual information directly to your eyes [2].

• Sports watches: The wearable devices is especially built for sports personnel who love running, cycling, swimming etc. These devices come with GPS tracker and records information on the user's pace, heart rate etc.

• Smart Watches: A watch that does more than just telling time. It provides users notifications on their calls, messages, emails, social media updates, etc.

• Fitness Tracker: Helps keep a track of the number of steps the user walks each day and continuously monitors the heart rate. Using this information, the devices is able to calculate and report accurate data on calorie burn and exercise done by the user.

• Smart jewellery: Smartwatches are designed as jewelries specially targeting women. These jewelries notify the users of their text messages, calls or emails when their phone is out of reach.

• Smart Clothing: The smart electronic devices are incorporated into the Wearable Clothing to give an interesting and fashionable look.

• Implantable: These wearable electronics are surgically implanted under the skin. These are usually used for medical reasons like tracking contraception's, insulin levels etc.

The need for Wearables Technology: the Wearable technology aims to influence the fields of health and medicine, fitness, aging, disability, education, transportation, enterprise, finance, gaming, music, etc. The goal is to smoothly enter the daily lives of individuals and become a functional part of them.

The hands-free nature of the wearable computing devices makes it very useful for businesses. Tracking the emergency and rescue team becomes easy thus making the workplace more efficient and safe. Hands-free access to important data and information through smart glasses and smart watches helps researcher, engineers, and technicians to be more efficient at their work.

The Future of Wearable Technology.

Wearable technologies present a significant opportunity for businesses, both in terms of new markets and data collection. Retailers can ping wearable devices to determine which sections of a store a consumer visits, advertisers can target consumers based on location and the nature of the application associated with the device, and information uploaded to a website dedicated to the device can provide marketers with information specific to an individual consumer [3].

How companies use the data gleaned from wearable technologies will continue to evolve as regulators and individuals grapple with privacy in the age of the internet. The willingness of so many people to utilize this technology, however, indicates that these types of electronics are popular and are likely to continue to be so.

СПИСОК ВИКОРИСТАНОЇ ЛІТЕРАТУРИ
1. Wearable Device [Електронний ресурс] – Режим доступу до ресурсу: https://www.techopedia.com/definition/31206/wearable-device.
2. Wearable Technology [Електронний ресурс] – Режим доступу до ресурсу: https://www.happiestminds.com/Insights/wearable-technology/.
3. Wearable Technology [Електронний ресурс] – Режим доступу до ресурсу: https://www.investopedia.com/terms/w/wearable-technology.asp.

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