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Short communication

Sustainable Principles of Mobile Computing

Nicholas Furness*

Department of Trauma & Orthopaedics, Royal United Hospital Bath NHS Trust, Combe Park, Bath, United Kingdom

ABSTRACT

Mobile Computing is the advanced and developing computer application that allows voice and video transmission in the form of data through computer or wireless devices without any further linking. Mobile computing has three aspects: mobile communication, mobile hardware, and mobile software. Modern way of mobile computing view as any electronic device that helps you organize your life, communicate with coworkers or friends, or do your job more efficiently is part of mobile computing.

Keywords: Mobile computing; Cloud computing; Internet of Things

INTRODUCTION

Cloud computing empowered Internet of Things (IoT) technology has conceptualized the ideology of Industry 4.0. Inspired by this, the food industry 4.0 presents a unique concept for determining food quality in real-time. Conspicuously, the current research provides an IoT-based smart framework for evaluating the food-quality parameters in restaurants and food outlets. IoT technology is primarily utilized to gather data that can explicitly affect food quality within a food serving environment. This allows us to synthetically generate realistic content requests starting from real-world databases of user activities in smart homes [1-3].

FUTURE OF MOBILE COMPUTING

The enhancement in Artificial Intelligence, increasing the speed to computing terminals. So the future of Mobile computing is more brightness. Increasing the technology in portability and light weighted devices, so as per this statement mobile computing devices are improving in portability and small in size [4,5].

FEATURES OF MOBILE COMPUTING

- Easy to handle and carry these small devices.
- Data can be transferred easily between users.
- Collect simulated data to current zone or your time.
- Arbitrary network, easily connect to other environment and transmit data.
- Having fast processor speed.
- Good battery life.
- Huge memory capacity.

APPLICATIONS

Traffic

During traveling in traffic if we require to know road situation, latest news and when if feel more stress in driving then can play music and other important broadcast data are received through Digital Audio Broadcasting (DAB).

Emergencies situation

Only Wireless networks work of communication in nature disaster 2 such as earthquakes, tsunami, flood, and fire. In worst conditions only decentralized, wireless ad-hoc networks survive. Means that can handle Emergencies situation by mobile computing easily.

Use in business

As per business point of view some of them help of this computing system can represent the presentation at the front of their clients while can access hot news of the market. Help of video conference could be discussing at the topic without hindrance any time.

Correspondence to: Nicholas Furness, Department of Trauma & Orthopaedics, Royal United Hospital Bath NHS Trust, Combe Park, Bath, United Kingdom, E-mail: nickholfurnes@me.com

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Credit card verification

when customer buy items in malls and other small shops when and pay bill in the form of swap credit card for transactions then need to establish network in between POS terminal and bank central computer then over protected cellular network verify the credential information of card fastly, if match it then proceed further otherwise denied get boost up speed of transaction process and relieve the burden at the POS network.

Replacement of fixed networks

Wired network has been replaced in wireless network e.g. trade shows, remote sensors and historical buildings. In wired networks, weather forecasting, and earthquake detection and to get environmental data are impossible. This is possible only in adapting the replacement of fixed networks in this computing.

Infotainment

Wireless networks are capable to deliver the latest information at any suitable regions and can download knowledge about concert at morning through wireless network that concert is conducting in any region as well as Another growing field of wireless network applications lies in entertainment and games to enable, e.g., ad-hoc gaming networks as soon as people meet to play together. So Infotainment by wireless computing is easier.

ADVANTAGE OF MOBILE COMPUTING

Increasing productivity

Mobile devices can be used in the field of various instruments, so reducing time and cost for customers and themselves.

Entertainment

For entertainment purposes, mobile computing devices can be used for both people and customers for personal and even presentations.

Portability

The main advantages of this, you are not bound to one Zone. It helps to access any wireless devices without place foundation.

DISADVANTAGE OF MOBILE COMPUTING

- Battery consumption hindrance
- Interference is persisted in shielding.
- Inefficient bandwidth in transmission.
- Connection losses over entitle re network.

CONCLUSION

In conclusion, wireless communications globally is something that people can expect as technology advances. Wireless communications has a lot of benefits and can make the world a lot more efficient. It does have concerns though as with every other new advancement that is made in today's world. The issues with security regarding access to person personal information or the negative impact that it may seem to have on society are a few things that are holding back the progress that wireless technology could be making.

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