



Life Style Disorders

Their Causes and Preventive Measures in The Indian Scenario



Sangeeta Puri

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ICT's Role in Healthcare Transformation in India

Deepak Jyoti

Abstract

Information & Communication Technology is a glory for health education. It serves as a platform for all the health professionals to communicate with their colleagues, patients and keep them abreast with the latest happenings in medical and clinical advancements across the world. Information technology (IT) has produced a deep impact on human lives, and the most important aspect of its effect is on education and learning. Institutionalization of ICT helps in better healthcare. It is felt by many healthcare professionals that if the same is done for the health sector, it might help in enhancing the adoption of ICT in health care which will be helpful to improve the health of all. ICT in healthcare can enable remote consultation, diagnosis and treatment through telemedicine. Any disease like dengue, Swine flu etc. if comes, most of us are aware about the symptoms of disease, precautions to stay away from those viruses and best doctors for that disease. Information and communication technology helps for educating the healthcare providers to understand the diseases and to educate the people about the precautions to stay away from the disease. Information and communication technology (ICT) tools such as e-learning, m-learning, science apps, evidence-based medicine, readymade power point presentation and Wikipedia are effective in improving knowledge and skills in health care professionals. This paper will focus on use of ICT in healthcare.

RESEARCH CHALLENGES IN COMPUTER SCIENCE AND TECHNOLOGY



Edited by
Dr. Pawan Kumar Chaurasia
Dr. Sunil Kumar Singh



ABOUT THE BOOK

Today, Computer Science and Information Technology plays a vital role in our daily lives. The objective of this book "Research Challenges in Computer Science and Technology" provides a platform for academicians, research scholars, and professionals working in the field of Information Technology to interact and exchange ideas, to discuss new issues and challenges with problems and solutions, to contribute and to disseminate innovatively and to shape future directions for research and development. It can be used as an online tool for research using references from magazines, journals, books and websites. This book contributed chapters by various academicians and research scholars.

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INTERNET OF THINGS: VISION AND CHALLENGES

Deepak Jyoti*

Abstract

The Internet of Things model makes promises to interconnect "things" on the Internet environment. This paradigm opens the doors to new technologies that will generate new type of networking among people and objects which will make more facilitating life for human beings. Any object connected with internet will be controlled by human even from remote sites. This new fabulous technology will create connectivity among specified objects/things and humans through internet. There will be direct communication among both without any intervention. This technology gave the idea to make the cities as smart cities and home as smart home. This technology enhancing the quality of life and efficient utilization of resources. It is the emerging technology which is providing us the incredible benefits on our life. It is very useful for the doctors to control their patients' health by getting vital information about patient's health even from the remote. Weather information, traffic monitoring, water supply, smart grid and energy saving and many more areas where IOT is providing facilities to manage their respective activities by receiving up-to-date information through sensors and internet. This technology is working on sensor technology. More than 100 million devices will be interconnected in coming years. However, the interconnected devices on IOT can be hacked very easily. So there will be multiple security issues which will be a big challenge for the successful implementation of IOT. This Chapter will discuss the fundamentals and main concepts of IOT, architectures for managing IOT platforms, Challenges in IOT and future of IOT environments.

Keywords: Internet of Things (IOT), Sensors, Wireless Technology, Security.

21.1 INTRODUCTION

Internet is the basic need of the lifestyle of many people. They use internet for multiple purposes as per their requirement like for watching any broadcasting and live shows, listening music and online shopping, online bookings, money transactions and many more. Now days, internet is helping in all fields of people's lifestyle during this pandemic condition in the whole world. Online education is the major advantage of the internet. IOT is the area which is growing rapidly due

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to the advantages of the Internet only. This the internet only which enables connected objects and machines to interact with each other to take some important action and provide some useful information. In the age of digital transformation, Internet of Things (IOT) is the hottest innovations which connect everything on the Internet. It is the key technology which is behind the making smart houses, self-driving vehicles, smart electricity metres, and smart cities and everything smart controlled and managed.

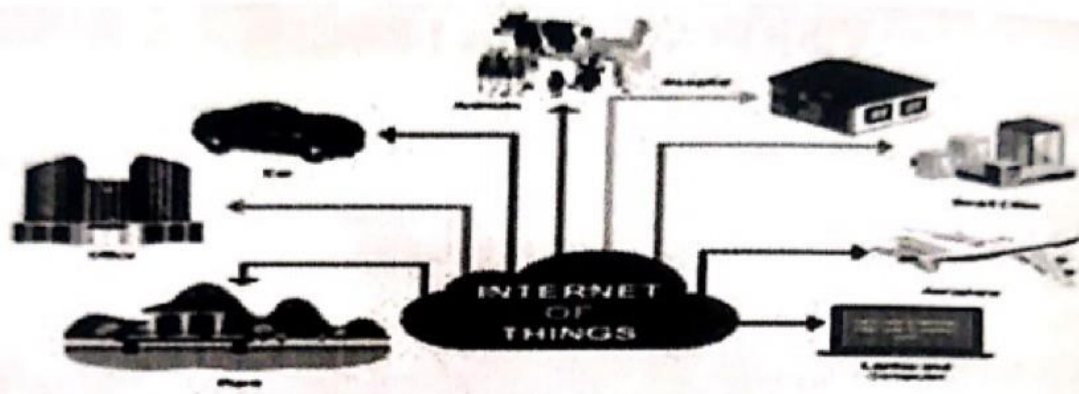


Figure 21.1: E-health

The Internet of Things (IOT) has rapidly become an enormous part of how people work, connect and do business. Web-enabled devices are transforming our whole world into a switched-on place to live. E-health is one of the most interesting application of IOT. It provides many elderly and disabled patients with medical supervision while maintaining their independence and security wherever they are. For example, physiological data is collecting and sending to respective doctor regularly through implanted sensors on or in a patient via wireless network and alarming doctor in the case of any emergency with patient. IOT has implemented in many applications as shown in figure 21.1

Internet of Things (IOT) is the most useful communication tool in our present life. It is growing quickly and facilitating our life more. These web-enabled devices are turning our whole world into a switched-on place to live. It connects our everyday objects having sensors connected to each other through internet so that they can exchange information to manage many important activities automatically. A smart system in which objects are connected to each other and send the information without human intervention on the cloud over wireless network. Many others consider it as a broad area where the interconnected devices communicate with each other through embedded smart sensors and wireless network. These devices are in streamlining but not so common tools in India. With the launching of



Figure 2.2.10

The main idea behind this interesting technology is to connect multiple devices to our daily life through the internet and control their working automatically without any human interaction. To collect the information from the smart interconnected devices, special types of sensors are installed on all these interconnected devices or devices. When the collection of information is finished the local processing system of these devices analyze the information to delete the unwanted data and store the important one into local storage. Then analyzed data from local storage is sent to cloud storage. Finally, an appropriate action will be taken based upon the gathered and analyzed data. This information is also maintained in the cloud for the future use. It is not compulsory that the action is taken based upon current gathered information, but the control or management can also take based upon the previous behavioral actions of the connected devices or users.

2.2 APPLICATIONS

People living in smart cities have become more smart by performing their work automatically without any human being help but with the help of Internet. One of the most important as well as useful application of IOT is the real time monitoring of the patient in which embedded sensors in patients are used to get patient arterial pressure, respiratory rate, ECG changes, asthma attacks, heart rate etc and other physiological data. Smart home is another application of IOT. It makes a home as automatic controlled home where all electronic appliances are connected to internet e.g televisions, refrigerators, microwave ovens, heaters, air conditioners and security. These appliances can be controlled remotely from the users. In case of any fault in any appliance installed at home, the manufacturing company is automatically informed regarding the defect through sensor, which are already installed in the devices and internet. Animal tracking or tracing is another application of IOT. The global positioning sensors are installed in the animal's body to locate their movements easily. Owners of restaurants, hotels, malls, homes, farms etc, can control from anywhere of the world. This smart wearable smart devices. In case of any emergency, relatives are informed automatically. The efficiency or smartness of these devices depends on the quality of installed sensors in it. They should be very effective because they compute the best decision. Real World Applications of



Organic Farming

Sushma Gupta



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Role of ICT in Empowerment of Farmers

Mrs. Deepak Jyoti

Abstract

Information and Communication technologies (ICT) are transforming all human activities, including agriculture which is the mainstay of rural India. One of the main reasons for the inequitable distribution of economic gains between the haves and have-nots is the gap in access to information. ICT plays an important role in bridging this gap and eventually will help in poverty alleviation. Farmers can get access to knowledge to improve their production and even get better price for their produce through variety of ICT systems. The advancements in ICT can be utilized for providing accurate, timely, relevant information and services to the farmers, thereby facilitating an environment for more remunerative agriculture. ICT is a powerful and productive system which can accelerate economic and social development in rural areas. We discuss in this issue, how this new age technology is helping rural India live a better life. One of the most effective tools of ICT is the internet, which has seen a remarkable growth in our country in the last one decade. In this issue specialists on the subject discuss the growth of internet in rural India and how it is actually working on the ground. However, despite the thunderous growth in ICT technology one of the main problems in adoption of ICT in rural segments are ICT illiteracy, availability of relevant and localized contents in their own languages, easy and affordable accessibility. Community radio is another technology which is being used by the rural people in their local language. In this issue we discuss about the Community

radio as well. The country is going through an ICT revolution and this has become an enabling force for the farmers and those living in rural India to become active participants in the growth of the country.

Keywords: ICT, Farmers, Development

Introduction

Many perspectives and many experiences could be provided on this subject. Some persons have specialized in the adaptation and integration of new electronic and digitized communications media for the benefit of farmers and other sectors of society whose economic and social advancement is the concern of ECOSOC and UN member governments as well as civil society. ICT by facilitating the promotion of changes in agricultural production methods is helping in many rural households to enhance their food security and raise their incomes, promote greater self confidence and innovation, contribute to environmental sustainability, and mitigate climate change effects.

Roles of Information and Communication in Development

Assessing the contributions that new technologies for information and communication (ICT) can make to poverty reduction, social integration and employment creation requires some understanding of and agreement on the roles that these technologies have in development. The three domains of resources, technology, and organization make different and respective contributions to the capacities of countries, communities, and individuals for meeting human needs and wants.

- Resources represent the broad category of inputs into processes of production, whether these are economic, social or political, that can meet needs and wants.
- Technology refers to everything from knowledge to machinery that is required to convert available inputs efficiently and effectively into more, or more valued, outputs, for meeting people's needs and wants more fully, reliably or innovatively.
- Organization then pertains to the social, economic, administrative and other structures that can manage the various processes of production that are necessary to meet human needs and wants. This includes functions like accessing resources and adapting technology.

These meta factors of development resemble land, labor and capital, which are diminishing returns in any one of these

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