

Awareness in Information Technology and Computer System

Trilochan Rout, Pravat Kumar Rautray, Arabindadash

Department of Computer science and Engineering, NM Institute of Engineering and Technology, Bhubaneswar , Odisha

Department of Computer science and Engineering ,Aryan Institute of Engineering and Technology Bhubaneswar , Odisha Department of Computer science and Engineering, Capital Engineering College, Odisha

ABSTRACT—This article describes the content and the development of information technology and explains the important role and meaning of information consciousness. To discuss the meaning of information technology from different point of view, we should aim at different occupations, different fields, pointing out how to popularize information technology and how to adopt measures suiting local conditions. We put an emphasis on collecting information actively, making active use of useful information and creating favorable conditions for learning and continuously improving the quality of work and life. We try our best to develop information resource preferably, to use information technology widely, to popularize information knowledge , to strengthen information ability ,to promote all walks of life and motivate the efficiency of social progress.

Keywords-Information technology; information consciousness; information ability; information development ; information application

I. INTRODUCTION

As the arrival of information -intensive society, it requires people to follow information age closely, popularize the basic information technology constantly, and strengthen information consciousness. People's daily life, travel and entertainment, study and work can't exist without information. The management of enterprises and institutions is becoming electronization and informatization. Whether it is higher to the outer space and lower to the deep ocean, the knowledge of information brings the gospel to human beings. Whether it is the thriving city or a remote mountain area, the information shortens the distance. Nowadays people live in the era of information explosion , we should adopt a scientific attitude, a structured working attitude to improve information awareness, learn information technology and the use and development of information to realize the better use of information.

II. THE MEANING OF INFORMATION TECHNOLOGY

Broadly speaking, the information technology refers to the application technology about data and information. Its content includes: Collecting, showing, dealing with, being safe, transmitting, exchanging, appearing, managing, organizing, storing, and searching of data and information. Information is used mainly for managing and dealing with the general names of different technology. It employs computer science and communication technology with the purpose of developing, installing and implementing the information system and application software. It is often known as the technology of information and communication too and it mainly includes sense technology, computer technology and communication technology.

As to the information technology, people will have different descriptions from different angles:

There are three accounts for the information technology. The first one is: The information technology refers to the information identification, extraction, transformation, storage, processing, retrieval, analysis, and utilization. The second one is: The information technology refers to utilizing the electronic computer and modern communication to obtain, transmit, store, deal with, reveal information and distribute the technology of information. The third one is: The information technology refers to how information produces, obtains, transmits, varies, discerns and employs.

The application of the information technology includes computer hardware and software, network, communication technology, and developing instrument of application software. With the popularization of computer and Internet, people generally use the computer to produce, deal with, exchange and spread information (such as books and periodicals, magazine, file, record, film and TV program, and pronunciation picture).

The technology system of information is that one adopts and develops comprehensive structure of the information technology for reaching strategic objective. It includes the compositions of management and technology. Its management composition includes mission, the requirement of function and information, system disposing, and information procedure; The technological composition includes information technical standard

used for realizing the structure of management system. Because the computer is the centre of the information management, the computer department is usually known as “the department of information technology”. Particularly, the information technology mainly includes the following technology:

The sense technology is trying to obtain the sense organ from expanding the mankind, which includes information identification, information extraction, and information detection. It can nearly expand the sensing function of all human being’s sense organs. The technology of sensing and measuring technology combined with the communication technology produced remote sensing technology which makes people perceive information widely and get the extension of the time and space. Information identification called pattern-recognition which includes characters, the recognition of pronunciation and patterning.

To realize the transformation function with fast, reliable, safe information there are various of communication technologies. For example, broadcast, film and television technology, telegram, telephone, radar, remote control apparatus and network communication all belong to the category of communication.

Information processing includes the information of coding, compressing and encrypting. These are information processing and regenerated technology. On the basis of dealing with the information, it can form some new deeper policy decision called “regeneration” of information. Information processing and regeneration resort to the scientific use of modern computer.

The last segment includes control technology and technology of revealing of the information. It is the information that we call uses technology, which is widely used. And more advanced information technologies such as the research of artificial intelligence, which is a field that is developing and it has enormous potential.

Informatization is to use information technologies to transform the other industries and trades, thus enhancing the efficiency of enterprises and institutions. In this process, information technology plays an important role of an effective tool.

III. POPULARIZE THE INFORMATION TECHNOLOGY AND STRENGTHEN INFORMATION CONSCIOUSNESS

Information is ubiquitous and our life can’t live without them. We want to obtain useful information, transmit information, keep and analyze information and deal with information. These challenge people, require people to study and master certain information technology, thus so as to work and study keep up with paces and rhythm of information age.

Strengthen information consciousness, that is to say, strengthen people’s insight and judgment to the sharp information feeling. Strengthen the sensitive intensity of information and require people understand experience and appraise different phenomenon, behavior and viewpoint of nature and the society from the viewpoint of information[1]. In the face of unknown things, we should utilize various information tools to look for the answer positively so as to improve the knowledge level and strengthen the intellectual equipment.

Information ability means people obtain information, process information, utilize information, manage information and innovate information. People utilize some information technology to acquire the information according to the response to the nature, interpersonal exchange and mass media[2]. To popularize the basic ability of using information the whole society, we should have certain professional knowledge and information knowledge. Using basic information skill, we can find out relevant information from various of information materials. In addition, we should have the ability of requiring information.

In the limited time, what kind of ability can people have? What kind of skill can people improve? Make an accurate selection of the direction and get twice the result with half the effort; if the road is confuse we may lose. People find diploma and certification are important but on-the-job field people got the biggest success is not the one who got lots of diplomas and certifications. There are things more important than that, that is the person's key ability. It is important among people's key ability that is the extent of information consciousness, digital operation, digital arithmetic, result display and digital application[3].

The core of vocational skill is the basic capacity except for professional ability of position in careers, it is suitable for various jobs and it adapts to the constant variety of the position, and it follows people's sustainable development capacity all the life. Ministry of Labour and Social Security of our country divides the key ability of the job into eight items in " national revitalization strategy of skill ", including: communicating with people, digital application, information processing, cooperating with people, solving problem, self-studying, innovative innovation and foreign language application. The key ability of the job can be divided into two big classes, the first class is vocational ability and the second is social ability. Vocational ability based on the personal ability, which includes concrete and clear ability. It mainly means that you should learn independently, obtain the new knowledge skill, and how to deal with information[1]. It is the labourer's basic development capacity and it is an important method of obtaining new skill, knowledge, information and grasping new method.

Information is not kind of resource. In order to make it become useful resource and realize its utility and value, we must draw support from the people's intelligence and information technology. “people” can

control the information resources and coordinate the subject of the information activity, while information's collection, storage, transforming, dealing with and usage can't exist without the support of information technology[3]. In order to improve the utilization efficiency of information, realize the utility value of information to the maximum extent, it is the inevitable result and tendency of the development of the science and technology, the changes of the social environment and the advancement of human thoughts[4]. Just like talent, raw materials and energy, information is considered as the important resources of the organizational development .

Enterprises and institutions and organization require the quantity of information processing is larger and larger and the pace becomes faster and faster. In order to let people grasp accurate, reliable information in time, and form true feedback. On the one hand, we should find and collect information in time. The information of the modern society is numerous and complicated. Some information is transient and it is unable to recollect. On the other hand, we should transmit information in time. Information is only transmitted to the persons who need it can function well and have strong prescription. Information not only requires in time, but also it must be accurate. Only accurate information could make the policymaker make the correct judgement. The utilization ratio of information, it means the effective information account for all primitive percentage of original information[5]. The taller this percentage is, the greater effect ones that proved information worked are. On the contrary, it not only causes the waste on manpower, material resources, and make useful information unable to get normal circulation. Therefore, we must strengthen the information processing organization ,improve the professional skill of staff and perfect the management system of information. Through special training, make staff have ability to discern information. Meanwhile, we must pay attention to finding out the rule from a large number of data by determining the nature and quantitative analytically by scientific method in order to improve the scientific management level and make full use of the information[6].

For the average non -professionals, they can be promoted to surf online: movies, TV, entertainment and chatting room [7]. They can be guided on online shopping, and the use of online banking. Also you can use Word, Excel, Internet applications to master the basic query search skills, basic writing, statistics and so on. For professionals of all fields, they can be trained about professional programming skills, database knowledge, statistical analysis of high-level computing knowledge and skills. For high precision and advanced researchers, they are required deeper and more cutting-edge knowledge. As long as we are to be directed against different levels, different needs, different target populations and different ways of learning, the role of information technology can continue to flourish and charm.

IV. SUMMARY

Human beings with amazing speed walk out of the industrial civilization and enter the information age. Information age has not only changed people's production and life, but also changed people's thinking and learning. Living in the twenty-first century, every one can say without hesitation: Information technology is changing our lives[8].

It has the profound influence of social development, which not only greatly increased the pace of development productivity, but also influenced the general structure and lifestyle of the whole society. Our view is becoming wider and wider and we can communicate with people easily.

With the development of modern society, information and knowledge has become basic resources of society. The information industry has changed into the core industry of society and information literacy has become a basic requirement for each people. IT gradually penetrates into the aspects of social lives. The selection, analysis, processing and utilization of information and the tradition of listening, speaking, reading, writing and arithmetic skills such as knowledge are equally important. Those abilities are the most basic requirements for personnel training in the new information society[7]. How to get the fastest information, how to analyze the effective information and how to use information to create decision-making is the core of modern management activities. In the business activities, it is an important that we should access to the information timely and make use of the information. Therefore, information technology is almost invariably changing our daily life, entertainment, study and work[9].

To improve learning effectiveness and efficiency, we should have a strong sense of information and the support of information technology. As information technology has improved continuously, the development of hardware and software are developing quickly and the environment of network is getting better and better, all of which gave the new demands for human thoughts[10]. We should have information awareness at any time, keep up with the information age, and get familiar information technology, because we live in this environment, we have responsibility and obligation to improve the quality of life, learning and quality of work.

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