Research Article

S3-004

Innovative Technologies Impact on Socio-economic, Health, and Educational Activities during COVID-19 Era

Mosleh Zeebaree, Samman Sattar, Nihad Shukri, Musbah Aqel, Dilovan Asaad Zebari

Institute of Graduate Studies and Research, Department of Management Information System, Cyprus International University (CIU), Cyprus

Abstract

Computerized technology's abrupt advancements cause noticeable renovation of financial systems and communal orders which are totally comprehensive. Modern developments are achieved specifically in the field of Artificial Intelligence, the internet of things, robotics, big data, social media, and business analysis. Moreover, the enhanced and computer-generated authenticities are providing a determined digital network and the latest possible results for a prosperous living. This recent research underlines the effects of the innovative technology in maintaining education, health, socio-economic procedures at the outbreak of COVID 19. One of the proposed methods for stopping the contagion of coronavirus disorder is by keeping social distancing and imposing lockdowns. In the meantime, that has triggered several distractions in the areas of mutual international interests, for instance, transportation, commerce, tourism, international commerce, economy, production activities, learning, etc.

It is essential and valuable to exchange the conventional way of working with an online electronic system since the old-working style came up with no advantages amid the outbreak of Coronavirus pandemic. The modern online working method supports the socio-economic process and enhances its related sectors such as promoting healthcare, online meetings through the internet, online market, video conferencing, electronic administration, social networking programs, diagnosing sick people electronically, and several other public services. Nowadays humanity is completely relying on modern technology in performing daily duties coinciding with this pandemic disease. Therefore, this study presents the positive role of innovative technology and its advantages in prolonging economy, social events, health, and the process of education and many other areas following the obstacles and hindrances facing humanity because of the lockdowns and social isolations at the time of this pandemic.

In this study, steps are taken to evaluate the advantages and disadvantages as well as the effects of innovative technology on the healthcare sector, socio-economy, and learning process at the time of this contagious virus. Furthermore, steps are taken to observe modern technology applied in the economy, learning process, and social activities for the purpose of focusing on common data regarding quarantine during the COVID -19 pandemic. To improve knowledge, though there are some scientific articles on examining that condition, particularly the effects of COVID-19 pandemic on socio-economic, health, and education. This study comes along with an analysis, using an organized evaluation through studying more papers linked to innovation technology, Covid-19, socio-economic, and online service". That would help us better understand Innovative technology and its related advantages at the time of Coronavirus Disease. The finding of this study, that innovation technologies were satisfactory to citizens and contributed effectively to the sustainability of social, economic, and health activities as advantages. On the contrary, innovation technology also has some disadvantages such as misinformation and spreading fear and panic among citizens by spreading false information or misuse of these channels by other parties for their own purposes.

Keywords: Innovative technology; COVID-19; Socio-economic; Online servicesheight; Yield

Introduction

The proponents of Kondratieff's theory approve of the explanation of the common condition of the economy in two parts: the expansionary cycle and the contractionary cycle. In the expansionary cycle, the time for success is abundant, while it gets less in a contraction, Contraction is accompanied by substantial progress in the technology and innovation domain, and however, the passage from invention to innovation occurs only in an up-turn. [1]. As researchers, we are content with the theory. Through experiencing the events occurred at the time of Coronavirus, we notice an intensified improvement in implementing modern technologies in all sectors of our daily life. We have fully understood that innovation in information technology is enormously affecting our life system. Particularly, the presence of the internet, web-based programs, and other developed means of communication which are directly or indirectly changing the course of everyday life throughout the world [2].

Most countries in the world have enforced several cautious procedures to limit the fast infection of the virus [3]. The measures include social distancing, limiting tourism, and avoiding social or public gatherings. At the same time, providing constant advice on

how to deal with the infected people while being in service across all of the country. World Health Organization (WHO) declared that COVID-19 has put the world in an emergency case since 30th January 2020 [4]. Furthermore, the organization stated that the world is in an international health emergency due to this novel Coronavirus. It is obvious that the COVID-19 pandemic appeared in Wuhan which is a Chinese province on 31st of December 2019, which rapidly spread to 24 countries outside China by the 9th of February, and 37,558 cases were reported and the biggest number was in China. On the 11th of March 2020 [5], the World Health Organization announced that Coronavirus is a pandemic disease. By the 29th of March 2020, the number of infected people with the virus reached 638,146 confirmed cases in 203 countries. At the same time, more than 30 thousand cases of deaths were reported [6]. As a reaction to the "critical condition" [7], governments closed borders and banned tourism and enforced lockdowns. [7,8] Meanwhile, there were fears of approaching serious economic crises especially in countries with the largest economy. Prior to Coronavirus Disease, the time that grown-up people in the U.S spent on social media was anticipated to stay at the same level in 2020 and 2021 in comparison to the time spent on social media applications in the years 2018 and 2019. While, amid the Coronavirus contagion, more than 50% of adults in the U.S used social media apps more than before [9]. This tendency is not likely anticipated to carry-on after the pandemic. E-Marketers supposes this thing will be decreased at a time we get the end of 2020 and everything will go back to the normal condition after the pandemic and then it will be diminished by 2021. It is believed that only 9% of adults in the U.S would move on spending time on social media applications and programs after the Coronavirus Disease. [9].

Concerning the importance of technology in the health sector, [10] they indicated that the current health system needs distant service alternatives for the purpose of making further improvements in the healthcare structure. Contrasting video appointments, the services involve texting, sending emails, and using cellphone apps and could be developed to include some other devices and "computerized chat applications". Those services could be implemented to grant synchronized and asynchronous assistance to patients infected with Covid-19 due to their constant need for clinical advice and services. For instance, healthcare and medical care centers could eliminate the necessities for private physical check-ups as a part of E&M services, meanwhile leaving the perseverance about the necessity for those check-ups. On the contrary, Audrey Azulay 2020, in accord with UNESCO puts emphasis on the capability of each country to carry on the process of learning for children of all ages and all levels of education.

The plan of locking down learning institutions in those countries influences approximately 421.4 million kids and young people in the world. Countries disturbed by COVID-19 reacted properly regarding methods of learning programs and other strategies such as online learning. The UNESCO website declares that this Coronavirus Disease can put the lives of 577 million learners in the world in danger. The overall number of learners who are possibly in jeopardy from kindergarten level to high school level is nearly 577,305,660 students [11].

Applying E-learning has become an inevitable choice and exceeded the limits at the time of the COVID-19 pandemic due to the tremendous necessity for learning institutions and modern techniques of teaching [12]. Therefore, introducing the E-learning system and Smart Vision School will boost chances for using mobile devices like tablets and smartphones to have access to lectures and lessons. There have been noticeable advantages in using mobile cellphones and other devices because teachers more actively engaged in teaching and students more enthusiastically participated in learning and encouraged self-studying habits among the students [13].

Coronavirus (COVID-19)

Coronavirus is among the group of viruses that directly affects the respiratory system in humans and sometimes it disturbs the digestive system as well. It is called Corona because it looks like a crown [14]. This virus was first discovered in the year 1937 when it caused infections and inflammations in the airways of some birds. On the other hand, it is confirmed that about 30% of cases infected with Corona Virus of type OC43 are like the common cold and it was discovered for the first time in the 1960s. Several kinds of coronaviruses have appeared, some of them have caused serious health problems. It is claimed that this virus which appeared in Wuhan in 2019, is a novel type of Corona since its first appearance [15].

Corona Virus Symptoms

Corona Virus Symptoms are like the symptoms of flu or common cold and they may appear after two or four days of contracting the virus. The symptoms are commonly mild and may include sneezing, tiredness, runny nose, cough, high temperature, pneumonia, and kidney problems. At the same time, it has caused death in many people with respiratory disorders. [16] Generally speaking, three to four people out of ten infected people have deceased, but most of them had other health complications. Thorough studies and findings conducted on that issue, it becomes obvious that people with a weak immune system and people who have other serious health complications such as diabetes, cancer, chronic heart disease, and chronic lung diseases are more vulnerable to contract the coronavirus, and more likely show severe symptoms [17].

Research Questions and Methodology

Research Questions

The introductory section above provided details on what are the Innovative Technology and Its Socio-Economic, Health and Educational Activities during Coronavirus (COVID-19) Era, and through this research we will offer detailed answers to the following two questions:

RQ1. What is the Innovative Technologies' impact on Socio-Economic, health, and educational activities during the Coronavirus (COVID-19) Era?

RQ2. What are the advantage and disadvantages of innovation technologies Socio-Economic, health, and educational activities during the Coronavirus (COVID-19) Era?

Aim of Study

The main objective of this study is to provide a better understanding of the impact of innovative technology on life activities during (Covid-19). At the same time, it provides full knowledge of the public health and private institutions, companies, and citizens about the effective role, advantages, and disadvantages resulting from using innovation technologies during crises.

Research Methodology

This study utilizes a Systematic Literature Review (SLR) approach, as mentioned by [18]. Following this approach, they announced

that many studies can contribute to developing aspects of research and related questions by providing the basics of verification. The SLR procedure can assist experienced researchers to develop new, interesting and distinctive paths of research by analyzing and accessing a large volume of academic work, as well as an understanding and awareness of the results of previous research and reaching new results by drawing on them [18].

Study Problem

In light of the rapid growth of the adoption of information technology in organizations, its uses have become a tangible reality in all areas of life as it has transformed basic business operations from traditional to professional operations, with one click of a computer key, huge cash transfers can be made and through surveillance cameras and commercial correspondence that can be tracked around the world, on the other hand, it can be used to diagnose Diseases and conducting complex operations for patients, as well as to maintain the educational process by stimulating open e-learning platforms. While the role of information technology in supporting social processes is evident in the large literature relevant to the subject of research, there is a clear lack of a comprehensive analysis of the role of these technologies in supporting social, health, educational, and economic processes. What are the advantages and disadvantages of using them in light of the coronavirus crisis?

Literature Review

E-Health

They indicated that the innovative group of services is necessary to develop the capability to look after very sick patients [10]. Accordingly, the online Hospital model for infected people has been well explained, and the payment method for that model has been recommended but it was not broadly accepted. Online Hospital healthcare can be applied as a critical tool for examining the physical condition of newly infected patients with SARS-COV-2 through modern means of technology and at the same time discharging patients from medical centers earlier [19]. They announced that COVID-19 intensifies the necessity for online clinical centers. For instance, the top Chinese medical technology company is known as Ping Healthcare and Technology Limited or 'Ping A Good Doctor' has established a system that offers online clinical services, online pharmacy, healthcare instructions, medical devices, and healthy products. The fascinating part of that system is the online health services through which the patients can contact specialists on the internet from all over the country. Accordingly, the Chinese government has decided to get benefit from the innovative technology for providing psychological health services through various means including hotlines, online treatment, online programs, and outpatient treatment [8]. Moreover, it would give more awareness to despair and apprehension. Then it is necessary to fight against the wide and rapid spread of misinformation by monitoring the wrong information and providing correct data through using innovative technologies such as big data.

They stated that the internet and social media have attracted a huge number of users in both developed and developing countries since millions of people talk about their symptoms and report their daily health issues [20, 21]. Above all, people use social media apps such as Instagram, Facebook, Twitter, and the internet in general to get information on their health and number of newly infected people and the availability of a vaccine that can terminate coronavirus. Therefore, it is estimated that 80% of those who were using the internet have searched for information regarding health problems. Furthermore, [22] they revealed that artificial intelligence may build a more accurate diagnosis of symptoms to anticipate possible new Covid-19 cases in addition to describing other causes of respiratory disorder. As well as noted [22] that artificial intelligence (AI) is widely used in the health care system as a comprehensive and basic method for disease detection and medical diagnosis. Consequently, the current pandemic highlights the vital necessity for artificial intelligence to expect other upcoming pandemics. However, artificial intelligence can gather and analyze data immediately for the purpose of supporting health professionals and public institutions in making complex determinations, meanwhile; the role of epidemiologists will not be neglected.

Accordingly, we can apply Artificial Intelligence for the purpose of gaining access to more successful and efficient medical treatment programs where different treatment methods are tested and documented. On-time discovery of terrestrial contagion in some regions can provide more helpful controlling techniques and that would make an immediate difference in detecting the cases [23]. Additionally, we can use communication and technology networks to search for sources and information. At the same time, it enhances our viewpoints and psychological abilities because we are aware that the internet can offer several means of communication during quarantine [23]. Therefore, [24] indicated that the use of cellphone applications is increasing and the demand on the websites that deliver food and other things is growing. Meanwhile, the use of apps will alleviate crowds and limit public gatherings during this critical situation. As stated by the American Psychological Association, providing social networks during the times of quarantine and instability can offer comfortability and regularity and may reduce anxiety and share emotions as well. You can talk with family members, friends at the time of loneliness and anxiety. You can even contact healthcare centers to receive positive advice and suggestions regarding your health. Also, modern technology can be used to help people enjoy their time, perform hobbies, keep them calm at the time apprehension [23].

On the contrary, false, and inaccurate information presents new difficulties in the sector of healthcare at the time of pandemics. There are several available examples of fake data [25], based on the information collected from surveys on the internet. [26] Showed that the majority of people depend on social media applications and software systems for watching news. For that reason, identifying false information has become a great obstacle for social media users. Additionally, publishing such kind of information may cause harm and lead to serious public health issues.

Socio-Economic

Social media has become a great source of information and plays a vital role in spreading it at the time of this Coronavirus epidemic [27]. Humans are social beings and form various types of relations among themselves. Communication is the activity where people can establish strong relations in society and tighten social norms and social systems at the same time [6]. The study of coronavirus's influence on online trade in Malaysia. During the study, it was noticed that online commerce has been badly disturbed by this pandemic contagious virus [24]. The country undergoes high death levels and the economy has deteriorated in the last few days. However, the economy is anticipated to go back to its normal and strong condition as it was before the pandemic, meanwhile E-commerce functions as a significant tool for the purpose of maintaining the continuity of business actions in the time of crises. They showed that a robust social and economic growth

plan includes strategies for all sectors because it requires an innovative system that promotes entrepreneurship. After that strong and balanced business patterns can prosper [3].

It is sensible that financial establishments and governments continuously evaluate the current situation. Therefore, they are declared that e-commerce has become the figurehead in numerous fields of life especially when it ensures the agreement with the regulations of social developments since April 2020 in delivering food and grocery products to all people [28]. That is what the countries' governments have requested and aimed to decrease individual's contact so that the spreading of the virus is eliminated. On the contrary [19] claims that the second very popular entertainment hobby among young people was playing games at home. Accordingly, based on the statistics collected by Barons', the game "Honors of Kings" attracted the interest of more than 100 million people during the Chinese New Year [19]. Consequently, Zoom Video Communications Inc.'s stocks have been increasing noticeably for the last two months. Zoom presents online facilities such as video conferences, voice talks, and chat using your own computer. The stock amplified by 47% in the last month, when companies urged employees to work from home. However, if Coronavirus pandemic and the current situation continue, then more companies will be obliged to provide online services.

The scientist stated that Social media could be a beneficial way for sharing data as fast as possible since it is considered an important tool for economic growth and public health [29]. Moreover, they indicated that social media sites offer an opportunity to gather an enormous amount of information that is helpful for the awareness of clients and companies based on recent events [30]. For that reason, it is proposed to use big data analytic tools to accomplish an analysis of this kind of social information because it will help customers and companies to come up with more suitable decisions and prepare properly to face events like Coronavirus disease. The social media has become the leading source in updating information regarding COVID-19 [31]. We need to realize that communication technology is extremely important in organizing our everyday social life particularly at the time of crises that face societies and humanity [6]. They stated that more than 6 million Twitter users twitted at the beginning of March 2020 to the end of the same month. The collected information is analyzed to provide information on the tweets regarding the spread of COVID-19. Emphasized that COVID-19 is still spreading across many countries, therefore; it is crucial to establish a connection between our globalized world and the use of globalization [26]. As a result, social differences and social communication has developed a thorough and significant source for publishing false information. Nowadays, most people depend on social media sites for new updates. Accordingly, it has become quite difficult to distinguish false information from accurate news comparing to the information published in the past. Additionally, such kind of information may cause serious harm and pose terrible health issues in the community. They indicated that accurate information provides a sense of comfortability and serenity and fights against fear specifically at the time of pandemics and crises [32]. Doctors and patients are really concerned about what they watch on TV regarding the breaking news and they have some trusted sources. At the same time, they ignore some of the sources because they lack integrity and spread wrong information since such kind of news pose negativity and cause terror and anxiety among people. In Addition, some agencies use such propaganda for illegal purposes. The process of filtering false information from accurate data in social media sites is enormously a tough task especially at the time of a pandemic such as Coronavirus.

At least, the attention must be paid to trustworthy sources that present checked the information and avoid assumptions when we use social media. However, even though most of the information is accurate and helpful, some of it may remain unsafe or untrue. For instance, on 'WeChat', which is a social media app, COVID-19 is described as the "killer virus", and that will surely cause fear, anxiety, and uneasiness for some groups of people. Furthermore, there are some tweets and posts on Twitter that relate COVID-19 to the common seasonal cold and that may reduce panic in most people and flourish the economic condition as well.

E-Learning

Humanity needs continued education even in times of crisis, and disaster, this assumes that every student must be treated fairly and must have access to education; however, this rule may be difficult to implement especially in developing countries. They emphasized [33] that many countries have replaced common teaching methods face-to-face with e-learning during times of emergency and new epidemics. They indicated that in Indonesia, E-learning has brought improvements and innovation to education since nearly 75% of students take part in the online learning process at the time COVID-19 pandemic. It is worth mentioning that there are some barriers to applying the E-learning system because students and teachers are not quite familiar with this process and there are some other obstacles especially the bad quality of the internet in some areas [34]. However, it is normal to have difficulties in the application of the E-learning system due to the fact; it will pave the way to apply Knowledge Base Management (KBM) in the future process of education and it may come up with better learning achievements as well. It has been noticed that through a collection of educational researches, that what happened to the learning process because of Coronavirus gave the opportunity to innovative learning methods. For that reason, teaching institutions across the world are trying to get benefit from modern technology especially when it comes to teaching children at primary and secondary schools [35]. E-learning typically concentrates on high levels of education and does not pay enough attention to thousands of students at primary and secondary levels. Furthermore, they indicated that many universities and secondary schools in China and around the world have organized online courses for the purpose of ensuring the process of education and offering knowledge to their students [19]. Some schools are attempting to start an online learning system, while some others prefer to use online meeting applications such as Skype, Zoom, and RTX Meeting by Tencent.

Accordingly, shifting from the conventional methods of education to online learning may become thorough and cover other sectors of service as well. Such transformation could bring significant benefits to several technology corporations that provide online education and not only at the times of crises but to longer periods of time. The scientist indicated that healthcare practitioners and specialists at hospitals and nursing students at medical colleges and health institutes are more vulnerable and unprotected against diseases, contagious pandemics, and other health crises [36]. Since paramedics and nursing students pay weekly visits to hospitals for practice, therefore; they are more exposed to contagious diseases such as Coronavirus. As a result, they can spread the virus to many individuals very quickly especially in the studying campuses, that's why schools, colleges, and other institutions must take suitable and immediate procedures to protect their students and employees. However, applying modern technology and communication sites can somehow limit the spread of the virus in the university campuses. For instance, Zoom can be used for giving

online lessons and it can be like a classroom. It is also possible to get benefit from Skype and other e-learning applications.

They Mentioned that the most significant and noticeable barriers that face the implementation of e-learning include the bad quality of the internet, the cost of infrastructure, and the privacy and security of students' data when they apply that system [37-41]. Additionally, e-learning means studying on screens, so students will take a little time to become familiar with e-books and other related applications. The fear of not developing handwriting skills is another weak point in using the e-learning system, especially for children since there will not be too much handwriting. Moreover, student-student interaction or student-teacher interaction is not available because it is not a face-to-face learning process. However, in addition to the lack of programs that support awareness, there are not enough practical channels as well. Consequently, there can be a sense of disinterest due to the lack of support for mobile applications and governments' inadequate assistance, and technological sophistication. On the other hand, inappropriate laws and policies and less knowledge in the field of information technology might hinder the process of e-learning to some extent.

Discussion

Innovation Technology's Effect of Advantage and Disadvantages

In light of developments in all fields of science, especially information and communication technology and information technology, where information has become distributed throughout the world in more than one way, in light of this huge amount of information, advanced technologies have become an effective role in sustaining all fields of life, despite the effective and professional role For these technologies, and by reviewing the findings of previous studies conducted in various developing and developed countries, which included the various fields of life, social, economic, health, and education, however, the results showed that these technologies also have disadvantages, and advantages and disadvantages can be summarized in the (Table 1).

Results

Nowadays, humanity is facing a crisis known as COVID-19 Pandemic. It is considered as a serious infection since it causes terrible health problems and may lead to death in some cases. People have realized that health welfare and survival are the most valuable things in life during such situations, therefore they need to protect

themselves and care about those around them. They understand that collective solidarity is crucial for overcoming such epidemics. The purpose behind social procedures is to provide all sources of support to human beings by applying means of modern technology applications in all areas of life. Moreover, modern technology offers better chances for dealing with tough conditions. It helps us in managing our daily routines and facing our concerns, and anxieties as well as supporting our friends, family member, and other individuals. Due to the fact, all humanity is vulnerable to contract coronavirus, therefore, the protection procedures have disturbed the economy, social relations, health welfare of people. However, old people with chronic diseases and those with a weak immune system are more exposed to COVID-19 since their bodies cannot fight the virus properly.

Communication and information technology play an important role in planning, managing, and organizing scientific, socio-economic, and health welfare at these difficult conditions of Coronavirus Pandemic. In the meantime, traditional types of communication are discouraged and avoided in several countries throughout the world. Online communication is widely used with the help of modern means of technology. As face-to-face communication is changed by online communication and that is a little bit challenging since emotions are not expressed freely. For instance, you cannot shake hands or hug someone online.

The term e-commerce refers to any kind of business deal, which involves the transfer of information. It also involves exchanging the value of goods and services through the internet [28]. The development of modern technology mainly depends on artificial intelligence which functions as an effective factor in detecting and predicting epidemiological risks. Additionally, artificial intelligence can detect and prevent future global health crises. It has become very important to the World Health Organization that all governments and healthcare foundations support and utilize artificial intelligence because it will keep the world more secure and healthier in the future. The valuable impact of Artificial intelligence on healthcare programs is actual and cannot be underestimated because it is not only a specialized field of research or a tool for more advanced healthcare systems. However, AI has the capacity to save lives during pandemics, as well as predicting future epidemics. For example, Blue Dot, which is a Canada-based AI company, specialized in epidemiology, sent predictions and notifications to its clients on the 31st of December highlighting the COVID-19 outbreak [22].

The process of implementing the e-learning system can pave the

Table 1: Illustrate the innovation technologies effect on areas of life.

Scope	Advantages	Disadvantages
E- Learning	limits the spread of the virus on campus, other educational institutions, and public places, for example, Zoom, Skype, and other e-learning applications can be used to give online lessons like studying in a classroom.	The learning process may not be satisfactory due to the poor quality of the internet.
	Gain access to education even at times of natural disasters, crises, and calamities.	Using e-learning method can delay the improvement of handwriting skills among children.
	Motivate students at primary and secondary levels, and gives the chance to parents to follow the learning process of their children and observing online lessons as well.	Online learning does not offer student-student or student-teacher interaction.
Socio-economics	It is an important tool for economic growth by exchanging data as quickly as possible, and contributes to the sustainability of social relations and reduces panic among most people and prosperity in the economic situation.	Social media is often used as a way to post incorrect and insecure posts during emergency situations.
	E-commerce is a unique opportunity for products and advertising goods for e-commerce that contribute to the growth of the corporate economy.	Online communication is free of emotions directly because you cannot shake hands or embrace someone you love.
Health care	An important tool for diagnosing patients, providing accurate data through Big Data and decrease public congregations during emergency situations.	Spread false advertising on the Internet.
	Sick people can get in touch with specialists on the internet anywhere and anytime, and reduce their fear and anxiety.	Fake reports and inaccurate information seriously affect people suffering from health or psychological problems.

way for the application of modern technology in other service sectors, especially educational ones. The application of modern technology and communications effectively contribute to reducing the spread of the virus on campus, other educational institutions, and public places. For example, Zoom, Skype, and other e-learning applications can be used to give online lessons the same as if they were studying in the classroom. Innovative technology can motivate students in the primary and secondary levels for the purpose of sustaining the educational process because visual learning often attracts the learner's attention and becomes interested as well, and provides an opportunity for parents to follow their children's learning process as well as observe lessons online as well. It should be noted that children will have access to education even in times of natural disasters, crises, and disasters, such as the Corona Virus pandemic. On the other hand, online learning does not provide interaction between students and students or students and teachers; therefore, students cannot talk to each other when they start discussing a topic, and the learning process may not be satisfactory because the poor quality of the Internet is some areas that are the main obstacle.

Social media is a beneficial way for sharing data as fast as possible since it is considered an essential tool for economic growth, and it contributes advantageously to the sustainability of social relations. As well as Social media sites could reduce panic in most people and thrive in the economic situation as well. Innovative technology offers a unique opportunity for e-commerce to advertising products and goods through social media sites. The increased interests in video games have encouraged technology companies to come up with more products and that will directly positively affect their economy. Conversely, through social media, some agencies use some advertising for some intended purpose. In general, social media is often used as a way to post incorrect and insecure posts during emergencies, for example, some sites still spread fear and anxiety. Online communication is without emotions directly. For example, you cannot shake hands or hug someone you love and this negatively affects the emotions of young adults. Some developing countries will suffer severely from the use of innovative technology because they are not ready for this process and may cost a lot to obtain such a system and its application in all sectors.

Conclusion

The condition of COVID-19 is continuously changing, and new challenges are appearing. Daily lives of many people have been changed as most countries are imposing quarantine and people must stay indoors. People are depending on the e-market rather than going shopping and shops are almost empty, although the online process of purchasing may cause some delay in receiving the packages. It is imperative that companies adopt available digital tools to make sure that business is done properly at the time of crises. Currently, E-marketing and e-commerce are providing unique opportunities because people don't need to go outdoors for their daily needs instead, they can shop online and that will prevent them from contracting the virus. Digital tools are beneficial since they can be applied for receiving orders, purchasing materials, receiving shipments, operational productions, and after-sale services.

Additionally, e-learning plays a significant role in maintaining the process of education at times of crises, especially in this Coronavirus situation. It is important that learning institutions include e-learning materials and programs in their curriculum for the purpose of increasing awareness among students and the education staff. In addition, it is necessary to immediately provide the basic requirements

to students such as suitable internet services, smart devices, as well as easy and clear applications. In the meantime, the websites of learning institutions such as schools and colleges must be easy to use and provide a variety of services such as videos via the internet, providing memorial screens in order to reach smart classes that support global languages and the mother tongue of the country. On the other hand, it is necessary to find solutions to problems and obstacles that hinder the function of e-learning applications such as copying and pasting from electronic sources, providing training courses on how to use the applications properly, and familiarizing students with the system. In the meantime, the role of modern technologies is noticeably acclaimed in detecting diseases as well as diagnosing patients and that can be widely used in the future. Moreover, those innovations in the field of technology can lead to significant advances in the field of research as well. For instance, medical technology in China has invented smart electronic caps that can detect those infected with the virus. Additionally, China has taken advantage of Big Data technologies to gather information on its citizens as well as using smartphones to check the condition of patients.

Regarding the importance of social media sites, it is confirmed that social media contributes advantageously to the sustainability of social relations during the quarantine and has an effective role in accessing the information on recent health reports. On the contrary, the publication of some misinformation regarding the disease can cause fear and anxiety for some people and will certainly come up with negative results. Above all, innovation technologies were satisfactory to humanity and successfully supported the sustainability of social relations, economy, and health services.

References

1. Dimsdale N, Thomas R (2019) Business, Monetary and Credit Cycles in Theory. In: UK business and financial cycles Since 1660. Palgrave Macmillan, Cham.

2. Mike K, Katie E (2010) Community Accessibility: tweeters take responsibility for an accessible web 2.0. Fast Capitalism.

3. Nicola M, Alsafi Z, Sohrabi C, Kerwan A, Al-Jabir A, et al. (2020) The socio-economic implications of the coronavirus and COVID-19 pandemic: a review. Int J Surg 78: 185-193.

4. Sohrabi C, Alsafi Z, O'Neill N, Khan M, Kerwan A, et al. (2020) World Health Organization declares global emergency: A review of the 2019 novel coronavirus (COVID-19). Int J Surg 76: 71-76.

5. World Health Organisation (2020) Novel Coronavirus (2019-nCoV) Situation Report-20.

6. Fuchs C (2020) Everyday life and everyday communication in coronavirus capitalism. Triple C: Communication, Capitalism & Critique. Open Access J Glob Sustain Info Socie 18: 375-399.

7. Burkert A, Loeb A (2020) Flattening the COVID-19 Curves. Scientific American.

8. Al Jazeera (2020) Coronavirus: Travel restrictions, border shutdowns by country. Coronavirus pandemic.

9. Keesara S, Jonas A, Schulman K (2020) Covid-19 and health care's digital revolution. N Eng J Med 382: e82.

10. Azoulay A (2020) UNESCO. Dirjen UNESCO director-general of the United Nations Educational, Scientific and Cultural Organization (UNESCO).

11. Toquero CM (2020) Challenges and opportunities for higher education amid the COVID-19 pandemic: The Philippine context. Pedagogical Res 5: em0063.

12. Al-Kindi SS, Al-Suqri MN (2017) Mobilizing learning: Using moodle and online tools via smartphones. Int J Knowledg Cont Develop Technol 7: 67-86.

13. Wooley DP, Mariani G, Woolley C, Luehrmann LM (2020) COVID 19 What you need to know. Shelter-in-Place (SiP) Lecture Series 1152.

14. Singhal T (2020) A review of coronavirus disease-2019 (COVID-19). The Ind J Pediat 13: 281-286.

15. Bushell M, Todd L (2019) CPD: Over the counter: Colds and influenza. Aus Pharmacist 38: 52.

16. Nande A, Adlam B, Sheen J, Levy MZ, Hill AL (2020) Dynamics of COVID-19 under social distancing measures are driven by transmission network structure, MedRxiv.

17. Rashid S, Ratten V (2020) A systematic literature review on women entrepreneurship in emerging economies while reflecting specifically on SAARC countries. In entrepreneurship and organizational change, Springer, Switzerland.

18. Tashanova D, Sekerbay A, Chen D, Luo Y, Zhao S, et al. (2020) Investment Opportunities and Strategies in an Era of Coronavirus Pandemic, SSRN.

19. Zhao Y, Zhang J (2017) Consumer health information seeking in social media: a literature review. Health Inf Libr J 34: 268-283.

20. Chen YY, Li CM, Liang JC, Tsai CC (2018) Health information obtained from the internet and changes in medical decision making: questionnaire development and cross-sectional survey. J Med Int Res 20: e47.

21. Long JB, Ehrenfeld JM (2020) The role of augmented intelligence (AI) in detecting and preventing the spread of novel coronavirus. J Med Sys 44: 59.

22. Wiederhold BK (2020) Social media use during social distancing. Cyberpsychology, behavior, and social networking 23: 5.

23. Hasanat MW, Hoque A, Shikha FA, Anwar M, Hamid AB, et al. (2020) The impact of coronavirus (Covid-19) on E-business in Malaysia. Asian J Multidis Stud 3: 85-90.

24. Sharma K, Qian F, Jiang H, Ruchansky N, Zhang M, et al. (2019) Combating fake news: A survey on identification and mitigation techniques. ACM Trans Intellig Syst Technol 10: 1-42.

25. Sharma K, Seo S, Meng C, Rambhatla S, Dua A, et al. (2020) Coronavirus on social media: Analyzing misinformation in Twitter conversations. ArXiv preprint 2003:12309.

26. Szomszor M, Kostkova P, St Louis C (2011) Twitter informatics: tracking and understanding public reaction during the 2009 swine flu pandemic. IEEE 1: 320-323.

27. Nakhate SB, Jain N (2020) The effect of Coronavirus on E-commerce. Studies in Indian place names 40: 516-518.

28. Giustini D, Ali SM, Fraser M, Boulos MN (2018) Effective uses of social media in public health and medicine: a systematic review of systematic reviews. Online J Public Health Inform 10: e215.

29. Ahani A, Nilashi M (2020) Coronavirus outbreak and its impacts on global economy: the role of social network sites. J Soft Comp Decision Supp Sys 7: 19-22.

30. Gao J, Zheng P, Jia Y, Chen H, Mao Y, et al. (2020) Mental health problems and social media exposure during COVID-19 outbreak. Plos one 15: e0231924.

31. Rochwerg B, Parke R, Murthy S, Fernando SM, Leigh JP, et al. (2020) Misinformation during the coronavirus disease 2019 outbreak: How knowledge emerges from noise. Crit Care Explorat 2: e0098.

32. Affouneh S, Salha S, Khlaif ZN (2020) Designing quality E-learning environments for emergency remote teaching in Coronavirus crisis. Med Sci 11: 1-3.

33. Zaharah Z, Kirilova GI, Windarti A (2020) Impact of Corona virus outbreak towards teaching and learning activities in Indonesia. SALAM: Jurnal Sosial dan Budaya Syar-i 7: 269-282.

34. Sintema EJ (2020) E-Learning and Smart Revision Portal for Zambian primary and secondary school learners: A digitalized virtual classroom in the COVID-19 era and beyond. Aquademia 4: ep20017.

35. Stirling BV, Harmston J, Alsobayel H (2015) An educational programme for nursing college staff and students during a MERS-coronavirus outbreak in Saudi Arabia. BMC Nursing 14: 20.

36. Alshehri A, Cumming TM (2020) Mobile technologies and knowledge management in higher education institutions: Students' and educators' perspectives. World J Edu 10: 12-22.

37. Sharma V (2019) Saudi students' perspective on social media usage to promote EFL learning. Int J Linguist Lit Trans 2: 129-139.

38. Hakami M (2020) Using nearpod as a tool to promote active learning in higher education in a BYOD learning environment. J Educ Learn 9: 119-126.

39. Oyaid A, Alshaya H (2019) Saudi University students views, perceptions, and future intentions towards e-books. Malays Online J Edu Technol 7: 69-75.

40. Mashchak N, Dovhun O (2020) Modern marketing and logistics approaches in the implementation of e-commerce. In: Integration of information flow for greening supply chain management, Springer, Switzerland.

41. Bug P, Helwig J (2020) Overview of product presentation with moving images in fashion e-commerce. In: Fashion and Film, Springer, Singapore.