

Artificial Intelligence and Cybernetics in Bertrand Russell's philosophy

الذكاء الاصطناعي والسيبرنطيقا في فلسفة برتراند رسل

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DOI : 10.46315/1714-013-001-040		

Received:05/ 06/ 2023 Accepted: 11/12/2023 Published :16/ 01/ 2024

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Abstract :

This article will discuss the importance of science and technology in our lives and what are the main problems of the misusing the latest technologies known under the name of artificial intelligence and cybernetics according to Bertrand Russell's point of view; then analyze his project of reforms including the risks of scientific progress, the article will show also the impacts of technology on peace, nature, and individual daily behavior, we shall discuss all issues and defies imposing by this new epoch, and what Russell will suggest to eliminate or to slow down the dangers of these and how to protect the individual's rights and responsibilities.

Keywords: Artificial intelligence; Cybernetics; Bertrand Russell; Philosophy; Science.

ملخص باللغة العربية

يتناول المقال الذكاء الاصطناعي والسيبرنطيقا في فلسفة برتراند رسل حيث هذا المقال بالتحليل جملة من الأسئلة الفرعية تتعلق بعواقب تكنولوجيا الذكاء الاصطناعي وتكنولوجيا التحكم في الحياة البيولوجية الوراثية وما يترتب عنها من تحولات تغييرات على مستوى القيم والوسط البيئي والبيولوجي عموما، حيث يكشف رسل بالتحليل والتفصيل مدى خطورة هذه الاكتشافات العلمية التقنية على حياة الانسان ومستقبل البشرية والتي تمثل تهديدا حقيقيا للأمن والاقتصاد الاخلاق وشروط الحياة الطبيعية ويدعو الى ضبط السلوك العلمي ومراقبته من طرف السلطات السياسية والمنظمات الدولية ولحماية الافراد والمجتمعات من مخاطر الذكاء الاصطناعي الحد من آثاره .

كلمات مفتاحية: الذكاء الاصطناعي؛ السيبرنطيقا؛ برتراند رسل؛ فلسفة؛ العلم.

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1-Introduction

For many centuries man desired to know how he can make the nature under his control, and many philosopher since the 17th century began to believe that the science is the real way to change the world and to show the supremacy of the man, So they were greatly interested in developing the method of research and finding out a new way to verify the scientific results, however, it was so confusing to see that what man has realized by using the science and technics, it was certainly incredible, discoveries became faster and faster, and experts are talking now about technological boom, but, in opposite, technology is fearful too, and its risks make many people scary and feeling blue, especially concerning war environmental changes, lack of personal privacy and ways of thinking and behavior engineering, then it was so hard to predict about humankind future, Russell was one of those philosophers whom admired really what science was serving us, then he talked about a new era of progress which is full of innovations , but he had also fears of misusing of

technics, he mentioned that man should be wiser if he wants to live longer, so why Russell believes that technology is risky? And what are the main risks of technologies? And how we can avoid its harms? What kind of reforms that we should make in order to make our lives look better?.

2-Methods

We shall use, of course, various methods to answer these questions. Like the comparative, analytical, and historical method, this descriptive method is crucial to find out the main ideas, back grounds and arguments used by Bertrand Russell, as well as to comment, to criticize and to ask questions, in order to justify our deductions and conclusions, we used also the critical thinking method which is generally required in philosophical thought, and especially in human and social sciences .

3- Results

Through this article, we conclude to some important results, firstly, artificial intelligence made a real change in societies, and possibly will change our way of living as never done before, also the same challenges could be faced in the biological field, secondly, this technological progress can threaten the world peace and the vital environment and ecological system, thirdly, our daily habits could also be affected, and even the traditional styles of learning and teaching could be a matter of change as well, man skills will seem also less important because of the wide enrolling of machine, and lot of people will lose their jobs, other serious result that seems clearly crucial is that artificial intelligence risks couldn't be overcome without education and the supremacy of ethics and taking into count human purpose in any scientific research, surely it will make possible to control the scientific experiments and lead them to best of human future .

1- The new emergence of AI and cybernetics :

Technology has without doubt an impact on society. As a matter of fact, we experience this effect in our daily lives. It has an effect on the growth of the economy, our culture and our living levels. However, it is important to note that the benefits are a double-edged sword, it means has a negative impact and at the same time could be beneficial. Thus, Technology affects deeply our daily lives. Technology is everywhere, our environments are all so full of technology to the point that most of the time we take it for granted and never actually notice the level of impact that it has on us until when we have no telephone, no transport, no water or no electricity. The technological progress has greatly increased our living levels. Despite the fact that we are currently measuring very high inflation rates, and even the rates of unemployment are very high, nevertheless, people are still living well, they can often get foods as well as the latest clothes and fashion easily, as a matter of fact, man finds today his life enjoyable and comfortable than before . (Russell B., 2009, p. 64)

Technology also has a great impact on all the fundamental aspects of all our cultures including laws and how they are enforced, language, art, health care, mobility, education and religion. For

instance, the great technological improvements in health care have given a chance to doctors to treat their patients in an environment that is virtual through the use of mediums such as video conferencing which has also greatly benefited the legal environment as it allows the judges to still listen to the cases of hard-core criminals who cannot be allowed to get into the court rooms due to security reasons. (Russell B., 2009, pp. 153-154)

1-1-19th century of knowledge technology booming :

Science is one of the most important spheres of human activity. It is a shape of social consciousness and a system of knowledge about the laws of nature and humanity. Science develops, organizes, and summarizes theoretical knowledge of reality and the world around us. It opens the laws and explores and explains important processes and phenomena that constitute the environment in which modern people exist. (Russell B., 2009, pp. 209-210)

Man should not underestimate the role of science for the population and general human development. Many essential things that make people's lives easier were created through scientific research and discoveries. Science is the basis that provides the development of humanity and makes people evolve under any circumstances. It plays important role in forming the world's global society. I am a fan of science as I clearly understand its role in my life. (Russell B., 2009, p. 210)

It is very important to mention that technology has participated to get a rid of the unhuman actions and to fight other feudal order practices, which had been dictating the world's progress for ages. These are only a few examples to show how technology can bring changes to our world . Moreover, technology affected the whole aspects of life, technological Innovations improved living and working conditions, urbanization, child labor laws, public health systems, and improved working class family life, the changed role of women, the emerging middle class, and deep economic growth. All of these things we can enjoy today were all due to the Society which has been succeeded to make those transformations possible , and consequently, Science has indeed impacted society and continues to influence it until today. It has changed what we believe and to do . (Russell B., 1971, p. 153)

Science has given mankind the chance to consider such concerns as education, justice, and even ethics to create civilizations, and to enhance human living conditions, changing our perspectives of food quality, length of our lifespans, and even changed our moral principles and the . thus science has immeasurably ameliorated society. It has also given us the power to be able to cause destruction. . (Russell B., 1971, p. 154) That means technology can serve us but it can a mean of destruction and to change the world negatively . That explains why Russell advised man to be wiser when he deal with the technological progress .

1-2 Technology development and nature control :

when the Scientists develop science as an effective tool, they aim to help to improve and upgrade the life of people all over the world. they attend to resolve all different problems and to find solutions in all fields of sciences in order to expand the ability of regular people to enjoy their life. The importance of science in the life of modern society is very essential because many spheres of human activity are based on scientific discoveries. It has not been possible for people to live in comfortable houses without the promotion of the development of materials for building purposes. It would not be possible also to treat people without accurate researches and studies in medicine. It is hard to imagine modern society without the development of science. All benefits and values that current society have their origin from the influence of science and its development. (Russell B., 2009, p. 70)

Most people are now confident in their independence and neglect multiple technologies that determine their lives. During the last 25 years, technology has dramatically changed human interactions (Muslin, 2020). In addition to domestic technological discoveries like washing machines and stoves, four technologies, namely, the Internet, smartphones, notebooks, and smartwatches, are used throughout the day. Despite their evident advantages in communication, data exchange, and connection, some negative impacts should not be ignored. In contrary, It's obvious for us that These technologies provoke mental health changes such as depression. I prefer to avoid my dependence on all these technologies that imperceptibly shape everyday activities. However, I constantly check my vitals, messengers, and calls not to miss something important. On the one hand, this idea of control helps improving my life and makes it logical. On the other hand, we feel more concerned about such relationships with technologies .

Similar negative impacts on society emerge when people prefer to communicate virtually instead of paying attention to reality. Technologies compromise social relationships because individuals are eager to choose something easier that requires less movement or participation, neglecting their unique chances to live a real life. They also challenge even the environment because either smartwatches or notebooks need energy that is associated with air pollution, climate change, and other harmful emissions (Trefle & Hazen, 2016). Modern technologies facilitate human life, but health, social, and environmental outcomes remain dangerous. (Trefle, 2016, p. 04) Thinking about my day, I cannot imagine another scientific discovery that makes this life possible except the Internet. Today, more devices have become connected to the Internet, including cars, appliances, and personal computers with time, people get an opportunity to use the Internet for multiple purposes to store their personal information, business documentation, music, and other files that have a meaning in their lives. The Internet defines the quality of human relationships, starting with

healthcare data about a child and ending with online photos after the person's death. (Trefle, 2016, p. 06)

Although the Internet was invented at the end of the 1980s, this technology was implemented for everyday use in the middle of the 1990s. All people admired such possibilities as a connection across the globe, increased job opportunities, regular information flows, a variety of choices, online purchases, and good education opportunities. It was a true belief that the Internet made society free from real-life boundaries and limitations. However, with time, its negative sides were revealed, including decreased face-to-face engagement, laziness, and the promotion of inappropriate content. When people prefer their virtual achievements and progress but forget about real obligations like parenting, education, or keeping a healthy lifestyle, the Internet is no longer a positive scientific discovery but a serious problem.

Many discussions are developed to identify the overall impact of the Internet as a major scientific discovery. Modern people cannot imagine a day without using the Internet for working, educational, or personal purposes. However, when online life becomes someone's obsession, the negatives prevail over its positives. Therefore, the human factor and real-life preferences should always be recognized and promoted. During the pandemic, the Internet is a priceless contribution that helps deal with isolation and mental health challenges. Some people cannot reach each other because of family issues or business trips, and the Internet is the only reliable and permanent means of connection. Thus, such positives outweigh the negatives overall if everything is used rationally.

Russell believes also that it is necessary to guess that lots of scientific achievements can be achieved with perseverance and patience, following the correct scientific method. This couldn't be possible without working commonly between all researchers, cause the human being efforts to innovate is unlimited, without forgetting that all projects are primarily aimed to serve the human being needs, and these scientific achievements surely serve humanitarian goals so the most dangers that the modern society is justified only by to the absence of these considerations. (Russell B., 2009, p. 200)

1- Impact of technologies of AI and cybernetics on human daily life .

2- 2-1 – impact of AI on peace

Russell was one of those defenders for peace all over the world, He made many speeches to announce his attention to be against any attempt to make the world unstable, the most important speech was that was given in July 5, 1958 in Basel, Switzerland, at a nuclear disarmament campaign conference which was banned by the Swiss government. It was first published in September 1958, that speech revealed clearly the position of Bertrand Russell concerning the traditional and

conventional war, especially when the weapons were developed and became a real risk for the who humanity (Russell B., 1953, pp. 73-74)

It remains crucial for Bertrand Russell that United Nations was intended, when it was formed, to be an impartial international authority to which disputes could be submitted without danger of bias toward either side. It does not at present fulfill this function. China, the most populous state in the world and likely, within a few decades, to be the most powerful, is not an active member; and, on this ground, Communist countries cannot regard the United Nations as impartial. If this organization is to fulfill its purposes, it must embrace all states, and the veto must be abolished. (Russell B., 1934, p. 167)

The UN or some similar body, must gradually acquire the functions of a world government in all that concerns peace or war. The problem that has to be solved is not merely that of avoiding war for a few year or a few decades. It is that of avoiding serious war forever. (Russell B., Freedom and the organization, 1934, p. 505), Whatever measures of disarmament may be adopted, nuclear warfare, bacteriological warfare, and chemical warfare will remain possibilities, and may be resorted to at any time when a global conflict breaks out. It is therefore imperative, if we wish human life to continue, to devise machinery for the permanent prevention of great wars. The only such machinery that seems possible is a single federal world government, possessing a monopoly of all the serious weapons of war (Russell B., Conquest of happiness, 1932, p. 16), it's obvious here that Russell is afraid of war by using AI technology, we do not know what will happen tomorrow .

He expressed twice his invitation to people to use their minds and hearts kindly, he believed that the best solution is to be wiser and to think logically and seriously about the real situation, he maintained :« I do not know what our choice will be, but I do know that it is the supreme and most urgent duty of all who retain any vestige of rational thinking and humane feeling to devote their utmost endeavors to the awakening of populations and their rulers ». (Russell, 1958:– Only world government can prevent the war nobody can win, 2020)We are leading the world toward destruction, with lofty watchwords on our lips, and many with noble though mistaken purposes in their hearts. Those among us who see what must be done are, as yet, a minority in both contending camps. But head and heart, alike, assure that we are in the right, and, if we are steadfast, wise, and eloquent, there is good hope that we may prevail (Russell B., 2009, p. 62)

Surely science is a good thing for Bertrand Russell because researches and discoveries of scientists could advance medicine. For many years, people who lived in the past were suffering from different illnesses. It was a difficult time for people in terms of mortality and health conditions. The development in the field of medical science created all the necessary conditions for treating people with different illnesses and the ability to provide decent medical services for those who want to

improve their health. Because scientific research, there was discovered penicillin which saved many lives, especially during World War II (Derderian, 2007). For me, the improvement in medicine is a great advantage for my health conditions. The scientific progress in this field gave me a chance to treat my teeth without pain and visit doctors with confidence that I will get qualified help. (Russell B., 2011, p. 27)

2-2 - Impact of technology on natural environment :

Environment, science and humans, they are bound to coordinate in their relationship. If humans follow the proper ways of nature and use the natural sources in limits, it will be good for this relationship, but humans are selfish, they used the natural sources within their demand for example, five lakhs whale fish have been slaughtered for the making of vaccine of coronavirus. Humans have never seen what will be the consequence for their act, they harm the environment for their benefits. When humans show their selfish way to draw unwanted favor from the environment and cross their boundaries, nature also shows her danger site to humans.

However, science can be sometimes very dangerous and become a mean of destruction . Russell talked about destruction; he shows that clearly when he said that this is an indication towards the starting of destruction. A new chapter has been added in scientific warfare that is organic war, including various viruses in it. Within a few months organic war can destroy the whole world without using nuclear power. We are in that situation today, for fulfilling our purpose we can go at any stage of inhumanity and in that science is helping us to a high degree. Russell has also assimilated science with philosophy to understand the basics of science "Russell was a believer in the scientific method, that science reaches only tentative answers, that scientific progress is piecemeal, and attempts to find organic units were largely futile. He believed the same true philosophy. Russell held that the ultimate objective of both science and philosophy was to understand reality, not simply to make predictions The development of science made a great contribution to the understanding of biological processes that occur in nature. It is very important to understand how nature works for people to have the ability to adapt to any climatic environment. (Singh, S, 179-180

The modern population of our planet strongly depends on food production. To provide and feed the current number of people on Earth, it is necessary to know the features of climate to produce high yields. Any weather changes could make a significant impact on the growth of crops. It is important to know weather conditions in the region to know which type of crops is the best solution to grow in a particular region. The knowledge of weather forecasting is also essential in such industries as shipping, aviation, cyclone warning, fisheries, and others. There was made a significant step in science in terms of the weather forecast. (Russell B., 1971, p. 175) The establishment of such

a branch as environmental science provided the opportunity to know whether for the general public. For me, it is very important to know the weather conditions at the place where I live to know how to spend my leisure time. It is also significant to know the weather conditions when traveling.

Discussing the origin of environmental problems, Russell said the problems of environment were not known for many scientific institutions in the 60th of the last century except some specialties, but later the issue became a real event, and the mass media contributed to shed light on this matter, after that several institutions and other international organizations had been built dedicated to study deeply, to print books, reviews in many languages of the world in order to let people to be conscient of what technology has made,

It's clear that environmental problems are dated since the technological progress has begun, this scientific progress has left many deep impacts on environment and human life, step by step , man felt these impacts as long as this industrial development aims to bring changes on human natural environment.

The consciousness of an urgent protection of our environment is due to technical and industrial expansion after the second world war and the need to find new sources to satisfy the social living requirements, then the major states started discussing the result of climate changes in order to preserve the ecological balance (Russell B., 2009, p. 167)

We know by now that the ecological pollution may cause many diseases for great number of children around the world when they breathe polluted gazes, moreover, rivers and lakes ; seas ; oceans can also being polluted even the main sources of water could be contaminated, how we can live if our environment would be sick, all economic activities would be impossible, because it depends primarily on the three elements, water, air and soil Russell thinks that conditions of peace, that why man should be careful of future conflicts, (Russell B., 1971, p. 160)

He told us about his concerns about the future of next generations when he was talking about technology and using the artificial intelligence, man in his opinion still uses irrationally all what can earth offer, industrial progress can affect seriously the earth necessary potentials because of using warming materials and other industrial solutions to get more productions, Russell was against such decisions, he says our planet is in danger as well as its potentials and the main energy sources, he told us that many countries have consumed entirely their natural sources and begin to look for them in other countries to endure their industrial supremacy by declaring war or making political troubles justifying their intervention like what happened in Vietnam or in middle east governments, also pollution might hurt man's health, many diseases are known today because of the industrial expansion . This situation due to the industrial boom that is wholly built on growth of production to

satisfy the consumer requirements, especially in agriculture which depends on certain pesticides and insecticides that later become a real problem for our health, (Russell B., 1932),

Then Russell discusses the issue of euthanasia that generally used medical solutions to end the person's life, he agrees with the opinion that pretends that is a kind of solution is merciful. (Russell B., 2009, p. 155)

2-3- Impact of techs on human and animal behavior cybernetics .

Cybernetics according to oxford dictionary is defined by the science of communications and automatic control systems in both machines and living things (cybernetics), it means that cybernetics is the science of communication and control theory that is concerned especially with the comparative study of automatic control systems (such as the nervous system and brain and mechanical-electrical communication systems), it is defined in Cambridge dictionary the scientific study of how information is communicated in machines and electronic devices, comparing this with how information is communicated in the brain and nervous system . It seems that Cybernetics is concerned with circular causal processes however they are embodied, including in ecological, technological, biological, cognitive and social systems and also in the context of practical activities such as designing, learning, managing, etc. Its transdisciplinary character has meant that cybernetics intersects with a number of other fields, leading to it having both wide influence and diverse interpretations a new branch of engineering (dictionary, p. 107)

Russell participated in protecting humankind future by putting some moral conditions helping to preserve the universe and all wealth and goods that man needs them in his life, the most important condition is not over use quickly the soil and all crude materials that we techniques and innovations can not replace in future if these materials will fade away, because we know firmly that the technological booming is a major condition for the social progress as well as for the prosperity based on the natural potentials (Russell B., 1955, p. 125)

Russell also took a share in making criteria for scientific research, particularly when it was obvious that biology would influence human life through the different experiments in the field of genetics and heredity, so the technique made a clear change on sheep genetic and plants too and brought benefits to the human life, this is what 's called genetic modification, Russell's thought that this biological excellent realization will affect positively our life in near future, even for human next generation progress if we could change the original characteristics both of man and animal, Russell's believed that this purpose won't be easy to reach because of religious opposition for such scientific experiences, but he is scared of using these results to hurt human beings, it does exist some secret experiences that aim to control and to change human genetics characteristics to create machine – man, a man without feeling or mercy, they attend to use it in war instead of normal men, they may

use science to control human body and soul, such things are so dangerous for Bertrand Russell's, (Russell B., 1971, pp. 180-181)

None deny that Russell made considerable efforts to call the scientific community to respect the ethics in scientific research and bioethics especially, he incited to whole scientists to take into consideration what is good and what is bad, he invited them to keep away all the negative impacts of technique which has serious ecological dangers for man and his environment, he explained that man uses anormally and irrationally the potentials of the earth and what he daily produces, he gave more details when he said there three reasons for this situation, first, man used techniques to waste more than he needs the main natural materials, secondly, the risk of using the genetics and the human cells composition results in biology against of course man's favor in future, it might be used to control our body and brain which based only on the electronic revolutionary means that led earlier to find out the genetic code for man and other organisms characteristics transition. (Russell B., 2009, pp. 54-55)

Besides, science can pretend to introduce you a choice to choose what kind of baby you prefer to have, and here according to Russell's remains the risk, the appearance of new attempts to modify human characteristics is followed also to change what we generally consume, foods, drinks, cakes, rice, wheat, and all of these products are matter of modification, this process is abbreviated under (GMO), unfortunately the impacts of this economic products are seriously felt, our health seems to be threatened and many diseases began to appear, science expands our knowledge concerning what is happening in our brain when we think, recall imagine or when we feel angry, to be afraid, to be simply happy, they know almost what happen in our deep secret life,

Furthermore, they even read through experimental both physical and chemical operations our souvenirs and childhood stories, and for Russell, we can not be always optimistic, They misuse the recent innovation in biology to destroy the individual intimate and desire, Russell's said we should be careful about these scientific events, because it will be risky to let scientists to, that is why Russell invites us pay attention to the relation between scientific research and ethics, it is only way to be sure that science will be in favor of man firstly, and scientific results will never be used by an ugly or bad power to control or to look for more economic gains or use it for vital expansion in war and conflicts ; technique is blessing for humanity . (Russell, Principles of social reconstruction, p. 20)

Moreover, They helped them to keep alive for many decades, but at the same time, it could be disaster if we don't try to be wiser with it, Russell's points out that man should be wiser than ever before because he has never been threatened so much as he is now, all men have to be concerned with the future of man, some gloomy scientists have recognized their errors, they participated in inventing harmful technologies, war machines, nuclear weapons invention, they regretted to do so,

Oppenheimer, einstein, all of them were so sorry, they tried to send these technologies to soviet union political responsible secretly in order to keep balance in power between east and west, they thought that was the only way to keep peace and stability around the world . (Russell B., 1953, p. 15)

3- Solutions to protect human future against the invasion of technologies

3-1 – Importance of education .

Russell maintained that constructing and developing the scientific society depend on science and of course on ethics, because in his opinion, the desire to make to have an entire social traditional changes needs to be unconsciously motivated besides, the individual awareness is very decisive against the old traditions based often on a mysticism and the social order, that is certainly wrong according to Russell, especially when these traditions push the young children to feel scary cheating and stupidity (Russell B., 1974, p. 180)

Unfortunately, society of today still remains attached to the traditional values such the religious tendencies, or the traditional meaning of family, or the individual values, despite the industrial development, but the society of today is more tolerant with some individual choices as it was in the past, so people became less interested concerning religion, fatherhood, love and beauty, they are much concentrating on control and exploitation

Russell thinks that people instinctive judgments can be influenced while they want to make social order, they resume to look if this social order could be pragmatic for them, and give them the opportunity to control the others and to obtain a financial advantage or benefit

In contradiction, scientific society or society of knowledge is far than to think like this way, yet, we didn't reach to the so-called scientific society , still suffering from unhuman actions, abuses other societies, misusing sciences results, hating each other, even familial links seem to be disconnected, so Russell believes that society of today needs to be reformed if we attend to reach the scientific society . (Russell B., 2009, p. 215)

Thus, Russell urges to reform our societies but reformers should not be men of hate and revenge, they should support people who really need help regardless their colors or origins, reformers must behave kindly and in mercifully manner , Russell added that modern man structure is the same with primitive man, each of them is under control of his barbarian structure, that is why he sometimes behaves with the same way. The is structure made him dually in behavior, pushes him unconsciously to be kind with his tribal members and aggressive with any stranger, he neglects all meanings of general benefit, , for this reason many people are today unhappy (Russell, Principles of social reconstruction, p. 68)

Based on the reality of the modern society, Russell bets on education, it might be useful to enhance scientific society members to react commonly to live in peace and harmony, ready to help

one another, to do their best make other people to live happy too, such reforms will generate a positive feeling to contract rather than to destroy, in short decades society will grow in better order (Russell B., 1919, pp. 193-194)

Russell maintains that society should allow to individuals to think freely, society needs that to encourage innovation and creation, any progress is based fundamentally on such ability ; however, what is going on today is that modern society still rejects the idea of distinction, that affects seriously the growth of individual activity, history proves that all achievements were depending on free thinking, either in ethics, art, intellectual development

It returns to those people to change the life style from barbarian style to the civilized one (Russell B., 1026, p. 63)

He entangled that we should be careful, personal initiative can be indignant if we don't make it under control, the biggest challenge now is to preserve the balance equal between the individual freedom right and the general order, because dominating people leads to similarities, meanwhile unlimited freedom will lead to the anarchy, we can't realize such balance without education and teaching, both of them will help people to conquest happiness and living in peace ; but first of all ; it's necessary to start reforms by reforming all fields especially in economics

Russell's invite all responsible to make education an obligation for all persons and free , either in private institutions or in public school, they should learn how to be free citizen not good citizen, far than any ideology that incites to the violence, nationalism, extremism and extremism, teaching should make people rational, doubtful, merciful, and human (Russell B., 1026, pp. 42-43)

3-2- Ethics and epistemological method to preserve the free-thinking .

Russell shows us that the goal of moral education lies in the intellectual aspect. education helps the individual to see the world objectively when Russell's talks about the ethics and educational aims, he said that it makes easy to handle with different challenges and makes him so ready to communicate with the others and comprehensive with his society and others surrounding societies, including also the relationship with his environment, it requires to deal with this problem honestly without exaggeration or recklessness or being under any authority

He also points out the importance of moral virtues in knowledge. He said that scientific research needs kindness and courage in front of beliefs of ignorant people. .He believes also that knowledge may help us to eliminate the fears in which man lived for many generations., This can be possible through avoiding imitation and using the Epistemological measures that incite the scientist or researcher to keep doubting in all common ideas. as result, they can later detect the illusions, mistakes and social wrong beliefs and false traditions that have been infiltrated to the individuals' minds by indoctrination and miss understanding, it resembles to the illusions of the cave, the theater,

the market and the tribe illusions referred to Francis Bacon who was the real founder of the modern experimentalism,

Russell gives a special importance for reason and wisdom and he seems uncertain in the utility of emotions, He calls for the use of reason, therefore He wanted to apply the scientific method of thinking and even on political conflicts to resolve different political differences in the same way as mathematical issues, namely, a man who thinks well should be impartial, objective, and excluded all miss judgement and self-assertion, he confirms the idea that only this scientific approach of thinking will protect us from intolerance, narrow mindedness, extremism, and oppression.

In addition, Russell's opinion is based generally on experience, so knowledge is not to be uncertain unless there as coherence between the results and assumptions by use the experimental method, our judgment could be true once you have this logical premises harmony , we should avoid any unknown idea in the beginning So we might make mistakes especially if this idea is originated of our old beliefs considered wrongly as true

3-3 – The international government guarantees the world stability.

Concerning the future of human being, Russell said that the extinction of the human race, is not to be expected in the next world war, unless that war is postponed for a longer time than it seems now probable. But if the next world war is indecisive, or if the political leaders would be unwiser, a period of feverish technical development may be expected. It will be more fearful with more powerful means like atomic energy than those now available, it is thought by many energy experts that radioactive clouds, drifting round the world, may disintegrate living tissue everywhere until the sun explodes.

Russell asked himself about the solutions to keep away such risks in future, he is conscient that man should care about the future and what will happen, he said » I come now to the question, what should be our policy, in view of the various dangers to which mankind is exposed? To summarize the above arguments: we have to be aware against three dangers—the extinction of the human race, a reversion to barbarism, and the establishment of a universal slave state involving misery for the vast majority and the disappearance of all progress in knowledge and thought,

In the same context Russell suggested that the only key to resolve all possible conflicts is to restore a universal government. He explained that when he added : « . Either the first or second of these disasters is almost certain unless great wars can soon be brought to an end. Great wars can be brought to an end only by the concentration of armed force under a single authority. Such a concentration cannot be brought about by agreement, because of the opposition of Soviet Russia, but it must be brought about somehow. (Russell, The Future of man Bertrand Russell calmly

examines three foreseeable possibilities for the human race., 1951) Russell thinks that conditions of peace, that why man should be careful of future conflicts,

He told us about his concerns about the future of next generations when he was talking about technology and using the artificial intelligence, man in his opinion still uses irrationally all what can earth offer, industrial progress can affect seriously the earth necessary potentials because of using warming materials and other industrial solutions to get more productions, Russell was against such decisions, he says our planet is in danger as well as its potentials and the main energy sources, he told us that many countries have consumed entirely their natural sources and begin to look for them in other countries to endure their industrial supremacy by declaring war or making political troubles justifying their intervention like what happened in Vietnam or in middle east governments, also pollution might hurt man's health.

Many diseases are known today related to the industrial expansion . this situation due to the industrial boom that is wholly built on growth of production to satisfy the consumer requirements , especially in agriculture which depends on certain pesticides and insecticides that later become a real problem for our health ; Then Russell discuss the issue of euthanasia that generally used medical solutions to end the person' life, he agrees with the opinion that pretends that is a kind of solution is merciful (Russell B., 2009, p. 24)

He warned us of the real danger of massive- destruction weapons . these weapons are used particularly by the army, and they are ready to use it in case of simple mis understanding, thus, Russell invite international society to stop nuclear experiments, he called that we can't stop the war by developing the means of war like what Alfred had thought when he invented dynamite as a means to stop any probable war in future, the only solutions for Russell to stop the war is to prevent some dictatorial governments or other terrorist organizations to have this technology (Russell B., p. 135)

Despite the fact that we cannot really ignore that there are a number of ways in which technology negatively impacts our society, for the better part it has greatly helped to make our lives better. Technology has greatly helped us to become more efficient thus increasing our productivity. It has also helped us a great deal to be able to save on many resources such as time and money and these are great benefits that cannot be ignored. It has also worked well in bringing unity into the world by turning it into a global village which has in turn helped people to more easily overcome their cultural, racial and continental barriers.

3- Results

Through this article, we conclude to some important results, first, artificial intelligence becomes a real change for our societies, and may change our way of life as never done before, the same challenge is faced for the biological results, many dangers of misusing of this science in our daily life, secondly, this technical progress can threaten the world peace and the vital environment, thirdly, our daily habits could also be affected, and even the traditional styles of learning and teaching could be a matter of change too, man skills are also less important because of the wide enrolling of machine, man is automatically becoming jobless The main result that seems clearly crucial is that artificial intelligence risks can't be overcome without education and the supremacy of ethics and human purpose in any scientific research, it will make possible to control the scientific experiments and lead them to best of human future .

4- Discussion

Body of the text we can't ignore the risks of artificial intelligence in our daily life, it brings an entire change in our thinking and behavior, we will be surely tied in machine and completely depending on the AI, moreover, cybernetics affect seriously our health and body, even our environment makes no exception, however, we can't ignore the benefits of this technology, it remains obvious for a big number of studies that the AI and cybernetic have participated to resolve a different kind of problems in science, especially in economy, education, medicine, and all aspects of life, that 'is why it necessary to say that the main defy is how to prepare people to deal correctly with these technologies without forgetting to think humanly and logically, so our future depends on how we deal with these smart machines and to keep them under control .

4- Conclusion

It sounds well that Technology impacts on our daily lives. Our environments are all so full of technology to the point that most of the time we take it for granted and never actually notice the level of impact that it has on us until when we have no telephone, transport, water or electricity. Advancements in technology have greatly increased our living standards. Despite the fact that we are currently experiencing very high inflation rates and the rates of unemployment are very high, generally, people are feeding better, are dressing better and are as a matter of fact living more comfortable lives, in other hand we can't ignore that the AI and cybernetics have also some negative impacts, day by days we realize that our environment is sick and our way of life suffer more than before of our technological progress, We introduce here some results that have been concluded through this article :

- 1- The artificial intelligence and cybernetics become a reality in our life
- 2- The AI with cybernetics is conquering merely all fields of knowledge and life
- 3- The AI and cybernetics have positive and negative impacts especially on environment, education, economics and business, and way of thinking
- 4- The AI begins to replace the human activity and imitate his abilities and threaten seriously human future,
- 5- The scientific society should take into account these challenges and tries to put under control
- 6- The real problem of AI and cybernetics is the lack of any deep studies about its impact in near future, and how to protect to next generation of its consequences
- 7- The using of cybernetics and AI should be preceded .by education and ethics to avoid any eventual misusing
- 8- The mission of government is to control the AI inventions and to see closer all experiences in biology or other scientific field and make sure that technologies do not change the major ways of life of people .
- 9- People must care of human conditions and keep the world peaceful and free of war and conflicts that will use the technology progress to destroy other societies

Technology has a great impact on all the fundamental aspects of all our cultures including laws and how they are enforced, language, art, health care, mobility, education and religion. For instance, the great technological improvements in health care have given a chance to doctors to treat their patients in an environment that is virtual through the use of mediums such as video conferencing which has also greatly benefited the legal environment as it allows the judges to still listen to the cases of hard-core criminals who cannot be allowed to get into the court rooms due to security reasons.

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