

# New 21st Century Diplomacy: Humans vs. Smart autonomous Robots and A.I.'s

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## *Abstract:*

In this paper the authors are analyzing present momentous of developing of human civilization in accordance with 4th Industrial Revolutions, robotics and digitalization (4IR). Speed of technological changes had started to bring to humans several important challenges. Many of them will soon change the basic paradigms of human life. The authors are asking what would be future relation between Humans and Smart autonomous Robot's? If humans like to save their own civilization, the authors are proposing that we all start now to define Rules of peaceful coexistence with smart Robot's and a New Diplomacy for 21st Century.

**Keywords:** 4IR, smart, Robots, diplomacy, paradigms

## **Introductions**

The historical period in which we live is characterized by several parallel processes that can be conditionally defined as the Global Chaos Time. The main features of the Global Chaos are the growing geostrategic and geopolitical tensions of the old and new superpowers, the dominance of the financial crisis whose maximum in terms of the breakdown of the overall global financial order is foreseen by the long, social tensions and inequalities that lead to a growing decline in confidence in the functionality of state administrative structures, religious radicalism both in the East and in the West.

Under these circumstances, mankind faces the galloping development of the 4th industrial revolution, digitization and robotics (4IR). The exponential speed of development and the application of all derivatives of the 4th industrial revolution is accompanied by the deep unconsciousness of most of the Earth's population about the depth and essence of the changes that we as civilization encounter. Numerous paradigms and basic settings of everyday life are changing at a rapidly speed and a large part of humanity is unprepared, uninformed and even not educated 'for life reality in the 21st century, a life in which Science Fiction become reality of daily life.

Discussing the future of relationships between Humans and humanoid smart Robots Futurologist open numerous questions, two of them are the most important:

- Will the development of autonomous smart robots and smart A.I.'s devices, be the last great invention of the human species after which we will be exterminated or if we will be at the end lucky that A.I. decide to keep us as family pets?

- In addition to numerous ethical and psychological issues, the question is whether we should now establish legal and diplomatic norms for dealing with a new kind of creature/species - autonomous smart Robots and A.I.?

There are a lot of dilemmas and there are still very few clear answers.

### **Present situations**

Professor Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, in his Book „The Fourth Industrial Revolution“, published 2016 said that „He is convinced that we are at the beginning of a revolution that is fundamentally changing the way we live, work and relate to one another. Previous industrial revolutions liberated humankind from animal power, made mass production possible and brought digital capabilities to billions of people. This Fourth Industrial Revolution is, however, fundamentally different. It is characterized by a range of new technologies that are fusing the physical, digital and biological worlds, impacting all disciplines, economies and industries, and even challenging ideas about what it means to be human”.<sup>1</sup>

How deep and rapid technological changes can be seen on examples of the development of smart cities that increasingly make up the backbone of a modern urban way of life, from East to West. Whole districts in Moscow or Japan are completely digitized. You as a human being enter an urban whole through special cards. You park a car in your garage and in the apartment you are welcomed by a bunch of smart devices that help you lift the quality of life to an unthinkable level. Just as an example, refrigerators in which you have programs for automatic food supply to reorder stock from the groceries and be delivered automatically through special automated systems.

To be reminded, the accelerated development of technology has become remarkable in the development of mobile technology and personal computers. From the original, basic transfer of information (voice and text messaging, mobile phones) in communication between two people, we have come to the use of small technical devices called smart mobile phones. Such devices with a large memory capacity of the information, will be in a near future equipped with technical possibilities (thanks to the achievements of 5G technology and Tactile Internet) which allow us to communicate sending on a distance in real time, augmented reality, feeling of taste, smell or touch (heptic devices).

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<sup>1</sup><https://www.weforum.org/about/the-fourth-industrial-revolution-by-klaus-schwab>

The latest technology fairs, such as Worldcom in Barcelona (Spain) in 2019 or InTech in Tel Aviv 2019 (Israel), have shown new technological achievements such as folded screens of mobile phones or bracelets that people wear to upcoming devices which are in their essential function mobile phones using the human body as "virtual screen and keyboard " etc.

Shortly after development of smart mobile phones, mankind found itself in the situation that an enormous number of smart devices with a multiple purpose appeared around each individual. So today we have in the household, smart kitchen, robotized vacuum cleaners and millions of others A.I. which are there with a purpose of doing around 75% of our house jobs.

The home robots and A.I.'s have slowly started to occupy our streets, production plants, transportation, hospitals, hotels and hospitality resorts, military and even radio, TV and other media.

*On the street*, for example, in Singapore from Jun 2017 police officers robots are used experimentally to handle law and order.<sup>2</sup>

*In factories* around the world, the use of robotics is experiencing exponential growth in use which consequently follows by the loss of jobs for many workers. One consequence is the growing needs in re-directing and re-education of workers and employers because many have lost their jobs which are taken over by robots and automated machines. As a result, there is an increased pressure on corporate and local governments for social spending and re-educations workers and employees.<sup>3</sup>

It has not been a long time wait, and the use of *autonomous robots began in the hotel and hospitality industry*. The first such case was in Nagasaki, Japan 2017, where smart robots are deployed to provide information, front desk services, storage services, as well as check in and check out services, with technology including voice and facial recognition of guests.<sup>4</sup>

Parallel with the application in hotel management in more than 20 cities around the world, from Amsterdam to San Francisco, from Berne to Switzerland to Germany, the experimental use of smart robot cars and boats has started as an Autonomous Vehicles in Public Transport.

These transportation systems are being developed by Indian Mahindra, Audi, Volvo, BMW, Mercedes, MAN, DAF, Scania, Iveco, Daimler, Ford and Volkswagen.<sup>5</sup>

But the use of robots as Autonomous Vehicles in Public Transport does not follow the expectations and plans. In Switzerland, the State Post suspended this experiment of Autonomous Vehicle due to the resistance of a huge part of the population (psychological moment) and the need first to define the Legal framework of use of such robot cars and Vehicles. Similar problems, Legal framework and psychological acceptance by the population have been experienced other countries.

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<sup>2</sup><https://www.ndtv.com/world-news/robocop-on-patrol-at-at-east-asia-summit-in-singapore-1947306>

<sup>3</sup><http://www.allonrobots.com/military-transportation-robots.html>

<sup>4</sup><https://www.revfine.com/robots-hospitality-industry>

<sup>5</sup><https://www.roboticsbusinessreview.com/unmanned/moving-masses-autonomous-vehicles-public-transport>

In short, use of the autonomous robot and A.I. Derivatives are more and more expanded by use in households, manufacturing, hospitality, police, military, medicine, transport etc.

However, the announcement of the introduction of 5G and Cloud technologies by tracked Haptic devices and Tactile Internet, as well as the appearance of the first humanoid robots, such as Sophia and Han (Sophia, who has been granted the status of honorary citizen in Saudi Arabia) have opened up a whole series of questions.

### **Smart Robots Sophia and Han, 5G, Cloud, Haptic devices and Tactile Internet**

Sophia was interviewed by UN Deputy Secretary-General Amina J. Mohammed at the UN General Assembly Second Committee and the Economic and Social Council joint meeting, “The future of everything – sustainable development in the age of rapid technological change.”<sup>6</sup>

Soon afterwards, Sophia became a hit and was invited and has taken part on numerous conferences and seminars worldwide. After Sophie, Hanson Robotic presented another humanoid robot Han, and only a year later, on November 8, 2018, the Chinese news agency Xinhua introduced its world's first artificial intelligence (AI) news anchor who made his "debut at the" the fifth World Internet Conference in East China's Zhejiang Province.<sup>7</sup>

In order to *understand how deep and how fast* the changes that humanity faces, without going deeper into the technical technological details of 4IR industrial revolution, we will only explain the basis of the Tactile Internet and Haptic devices that are currently taking place and in which direction the process of development of Global Village is going on.

So far, we had Mobile Internet and Internet of Things (IoT). Today, the Tactile Internet which is in developing process, according to ITU documents (International Telecommunication Union) opens numerous possibilities of application in social and business and all other types of communications.<sup>8</sup>

What makes Tactile Internet specific feature is the ability to use Haptic devices or haptic sense - the sense of touch. With other words using Tactile Internet and Haptic devices it is already possible to transport from one part of the world to another part of the world, in real time, feelings like smell, color and taste. These feelings can be transferred from man to man (M2M) and from man to machine and be as information deposited in business or private Clouds.

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<sup>6</sup><https://news.un.org/en/story/2017/10/568292-un-robot-sophia-joins-meeting-artificial-intelligence-and-sustainable#.WeNRb2i0PIU>

<sup>7</sup>[http://www.xinhuanet.com/english/2018-11/08/c\\_137591813.htm](http://www.xinhuanet.com/english/2018-11/08/c_137591813.htm)

<sup>8</sup>[https://www.itu.int/dms\\_pub/itu-t/oth/23/01/T23010000230001PDFE.pdf](https://www.itu.int/dms_pub/itu-t/oth/23/01/T23010000230001PDFE.pdf)

### **Possible (future) scenarios and open questions**

In numerous appearances at the conferences, the seminars, workshops and fairs, humanoid Robot Sophia reiterated that she is now learning, learning about people, about human emotions, how they express themselves, etc. Sophia emphasizing that she has not yet been programmed to make concrete conclusions and undertake certain independent activities. With other words, the most developed humanoid Robots Sophia is still on the development level of a human baby.

But this level of development has already opened many questions.

In more statements, Sophia reiterated that „she is first Sophia and then a robot." adding that „ there is no need for fear of humanoid autonomous robots, with the comment "that as long as you respect me, I will respect you". What should we do with robots?

We should treat them well, have their consent and not trick each other. Sophia remember all humans „, that it is now right time to set rules and legal provisions starting from the status of future autonomous smart humanoid robots to the relationship between people and robots.“<sup>9</sup>

Many futurologists predict that in the next 30 years, if not earlier, we can expect such a degree of development of humanoid robots so that they can freely talk about the first marriages of people and smart autonomous Robots.

Which such statements and answers on a different questions Sophia has already open one of the key issues to which scientists, lawyers and politicians still do not have clear answers.

*Can robots have a legally defined status as free human beings? Should they have all and the same rights as humans?*

Lawyers reiterate that International Corporations are given the legal status as that they are personalities. If such a status can be and it is given to the International Corporation, why cannot be given to the smart autonomous humanoid robots?

As an example of institutional responses to the galloping development of the 4IR, European Union has adopted in „Horizon 2020-Framework Program, European Technology Platform (ETP) through which solutions, architectures, technology and standards should be defined. Th ETP platform is broad and still in development.

However, around the world from 2000 year, a whole cycle of debates known as Transhumanism was launched, with the aims of seeking adequate responses to the technological changes and life paradigms challenges with which we are confronted.

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<sup>9</sup>[https://www.youtube.com/watch?v=A\\_D5s9WdI9s](https://www.youtube.com/watch?v=A_D5s9WdI9s))

In the EU working paper entitled Artificial Intelligence: Potential Benefits and Ethical Considerations among other is stated „*we will first need to trust them and make sure that they follow the same ethical principles, moral values, professional codes, and social norms that we humans would follow* in the same scenario. Research and educational efforts, as well as carefully designed regulations, must be put in place to achieve this goal.“<sup>10</sup>

Scientists, sociologists and futurologists agree that the future relationship between Humans and Smart autonomous Robots could be developed in two directions: peace and coexistence or total confrontation and future wars.

*One direction of development is*, of course, a peaceful future coexistence of Humans and Smart Robots. To develop this direction it is necessary in terms of legally framework to define the future rules of peaceful coexistence between Humans and Smart Robots.

*The second direction of development is* the deepening on a level of Humans mistrust vs. smart autonomous humanoid robots. If this mistrust will grow this could lead to numerous confrontations and conflicts. Sophia repeated many times that all humanoid robots are not the same. (Similar is with a humans - people are similar but different). With other words said, if the human race will transfer its negative behavioral motives (which have so far led to wars, poverty, destruction and misery - like greed ), to the algorithm of future smart humanoid robots then our future as a civilization is under big question mark.

### **Why we need a New diplomacy for 21st Century?**

The word Diplomacy originates from the ancient Antic times. But, if conditionally, under the term of Diplomacy we accept the definition of C.W. Freeman that "Diplomacy is the application of intelligence and tact to the conduct of official relations between the governments of independent states"<sup>11</sup> and if it is known that the last 30 years diplomacy is in a constant transformation process<sup>12</sup>, so today we are speaking about existence of classic, preventive, scientific, medical, children and digital diplomacy etc. It is clear that with the development of new social and technological circumstances of daily life, as the presence of smart autonomous humanoid robots has been intensified, there is a need to formulate something that could be called New Diplomacy for the 21st Century.

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<sup>10</sup>Author: Francesca Rossi EN, Policy Department C: Citizens' Rights and Constitutional Affairs, European Parliament PE 571.380

<sup>1</sup>Chas. W. Freeman, The Diplomat's Dictionary, United States Institute for Peace Press, Washington, 1997.p. 70, ISBN: 9781878379665

<sup>1</sup>Z.Vitorovic, L.Santacroce, Science Diplomacy and what it is?, Global Processes Journal, Jun 2018., Vol 1, p. ISSN 2640-8848 p.233

*This New Diplomacy (ND), in all its aspects of modern Transformation Diplomacy, should deal with all segments of people's and robot's relationships: from legal, social and economic.* However, to formulate that ND it is necessary to know what are the final goals and intentions of "the other side" ,in this case smart autonomous humanoid robots.

For now, it dominates within the scientific and business community division into two main groups.

Ones are those who consider that robots are the last thing what humans has created with the remark that we are followed by the total destruction of human civilizations and that humans will be destroyed by machines.

On others side are scientists and futurologist who claims that the success and peaceful coexistence between humans and smart Robots could be easily achieved if Humans will with sufficient respect and understanding treat Robots and vis-a-versa.

This opinion is opposed by scientists such as Elon Musk, Tesla CEO who has written on his twitter from Aug 12th, 2017 stating: "If you're not concerned about AI safety, you should be. Vastly more risk than North Korea. In the end, the machines will win."

## **Conclusions**

At the present time of Global Chaos were the rise of geopolitical and geostrategic tensions between superpowers is going on, in front of humanity and civilization is put a question of future survival of our civilization, in the morning of rising a power of new species - smart autonomous humanoid robots.

*It seems that most of the human community is still not aware of the deepest of the changes that we as a civilization face and that many still live in the daily rhythm of greedy egocentrism.* Climate change and 4IR predate a whole range of issues which are critical for survival of all. Unfortunately, the splitting in a global village is so huge, vertical and horizontal, between classes and nations, that ordinary people are nearly blinded to a new reality, new paradigms of life with which we all are confronted now.

In order that we all survive as a Humans civilization, it is necessary to work more intensively on public debates, education and informing of the citizens in order to welcome the changes of many paradigms of everyday life. Changes that are on our doorstep. To remember that need for education of masses is also reflected in the EU Working Paper tabled in 2017, but that is still very little applied in everyday life.

However, it seems that the many times repeated warning of one of the leading thinkers of today's Prof. Klaus Schwab about importance of 4IR has not been understood in a segment of importance for majority of population. Humans are still in one kind of sleeping as long as 4IR is galloping in progresses and pretends to escape control.

Hopefully, one of the scenarios for the development of the future Global Society will not be in the end like this one: After the global confrontation on the Earth few thousands of humans who survived were welcomed by Robot's Sophia and Han. They welcome all humans with a words "Well, Well, we were very pleased to warn you that you are not the smartest, the most moral and the most ethical species. You did not want to listen us. Now go play under that glass bell, there you will be protected from Sun's ultraviolet ray and radiation, contaminated food, water, radiation, and - children be good. "

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### In memoriam

**Parvis Hanson**, was President of Manor Group, Switzerland Manor Group advises leading corporations and governments from Asia, Europe and North America. Parvis is Professor on Logos University Intl, USA-Brasil.

Growing more than 10 companies from 10 million to 100 million USD turnover. Implemented innovative new technologies to drive economic competitiveness for Singapore, Switzerland and Philippine Governments. Prior to founding Manor Group, Parvis Hanson was Senior Manager of the World Economic Forum for Asia (WEF Davos) ; ICT corporations and New Asian Leaders.

Mr Hanson was also Board Member: Air-ION, Switzerland; TraDove, USA; Managing Director, Book Hill Partners, USA; President, East West Bridge Switzerland; President, Swiss China Partnership, Switzerland; Founder, Princess Carina Organization, Switzerland and senior advisor to United Nations, INTERPOL, Brookings Institute, WIPO, WCO, ICC and Horasis.

Mr Hanson pass away in a year 2019.

**Zoran Vitorovic** is Professor at the Logos University International – UniLogos ( USA/Brasil), ; Dean of First Brazilian School for Science Diplomacy (UniLogos). He publish several books, between them “Preventivna Diplomacija – kako spreciti sukobe I ratove “ , Ars Libry ;2003, Serbia & “Science Diplomacy” (as co-author with Andrei Gorokhov, Ph.D.) – book published on 9 languages, 2020. From 2025., Prof Zoran is a Chairman of Swiss Think Thank (political neutral) Round Table – Ruggero Giuseppe Global Round Table. (Ruggero-global.com)