THE PRINCIPLE PROPORTIONS OF PUBLIC OPINION ON MODERATE ROBOTICS

WATHQ ASMAEL HAMED, Directorate of Education in Nineveh, Mosul, Iraq, wathig8000@gmail.com AKBA ZOHEER MOHAMMED, Director of Education in Al-Anbar, Anbar-Iraq, okbah80@gmail.com

Abstract: This paper examines the public perception of smart robots using an extraordinary concentration on ethical perspective. In doing so, the study reviews the supplementary literature and evaluates information from the comment sections of four public internet news posts on intelligent robots. The findings from the physical analysis of the explored comments indicate that public opinion regarding smart robots is very negative and that the debate is based on various accountability issues as well as the harmful social and economic consequences of robots around the earth. In particular, many comments are called "apocalyptic", indicating that the growth of smart robots is a threat to human existence, as well as changing the human labor through smart robots widens the socio-economic gap. Furthermore, the public debate over whether robots have "rights" or the environmental implications of the growth of robotics is central to this debate. In this paper, we can see a complete comprehensive classification of robots. And the crucial, ethical legal and social issues of robots can be seen. This research is based on Europeans on the robotics roadmap, plus it is the end result of 3 years of study and discussion with robotics and humanities scholars. This classification refers to obvious or pressing or sensitive ethical difficulties in key application areas of robotics, making in-depth analysis further study.

Keywords: principle proportions, Applied Ethic, Information Ethic, Human Enhancement, Content analysis, public opinion, Roboethics, Smart robot, dendrogram approach.

I. INTRODUCTION

Currently, we are facing a "robotic market explosion". The size of robots at work and at home is growing rapidly. Tsapestas (2018) provides a notice of foresight that a wide variety of robots (e.g., industrial, service, social, assistive, residential) robots are increasingly involved with human existence, and the future is not far off. In particular, "smart robots" are expected to become widespread in society. Therefore, it is good for people to prepare themselves by understanding the impact these bots have on our lives, so as McLuhan (1964) put it, "trust them before we put them out".

Using the definition from Westerland (2020), intelligent robots are autonomous artificial intelligence-based approaches that can collaborate with people and learn from their work environment, experience and human behavior in human-machine interaction to improve their functionality and capabilities. Nevertheless, it's getting more and harder to categorize wise robots with their function, as fresh smart robots have become assembled for numerous functions. Here we can see an example, a robot called "Baillie" introduced by Samsung, which we can use as a friend, and as a private assistant, as a pet puppy, as well as a manager who controls all the robots. In the same way, a robot called Trifo's "Lucy" can be used as a cleaner by a clever and traditionalist. The uniqueness of this robot is that it can detect rooms and distinguish between dark videos and light videos separately. AI and the operational freedom of various sizes begin possible smart robots; HMI ergo is complicated and raises many ethical questions. Therefore, Torrasen (2018) emphasizes that robot designers must be perfect, one is safety (mechanics to regulate a robot's liberty), second security (preventing improper utilization of a robot,), and third one is trace-ability (a"black box" records a robot's behavior) and forth one isidentity (a robot's identification number), and fifth one is privacy (protection of data which the robot conserves). Yet, even though people opinion on robots could stay favorable, there's the fear of robots replacement humans from the labor pool. Other factors include, as an instance, technology dependence, autonomous results on individual associations, the probability of Lack of control over the development of future robotics and generally challenges integrity. Remarks regarding killer robots and gender robots are specially polarized. Thus, the existing requirement is evident to more systematic research regarding the people understanding of robots between integrity. The report aims to investigate public comments about intelligent robots, with a particular focus on ethics. In doing so, Westerland (2020) reviews major issues known as "robotics", including general understanding of robots, as well as intelligence and ethical perspectives on robots. Research after researching the thematic content of the dataset follows this framework, which includes 320 publicly accessible reader opinions in four sections of Internet news articles about intelligent robots. The content of this test is intended to categorize public comments regarding intelligent robots working with a framework with four different ethical perspectives. In doing so, the study proves that opinions that emphasize the future or current social and economic progress of robots in our society highlight many unwanted consequences. The results suggest four ethical perspectives, which "see smart robots as having a moral impact on society", along with apocalyptic perspectives on smart robots that play a very large role in human civilization.

II. RELATED REVIEW

As a way to better understand ethical measurements in the context of robots, this analysis reviews previous literature on this issue. It contains the conceptual framework used for empirical research in the present study. At the same time, the analysis temporarily solves the social perception problem of smart robots. Taken in this light, the conceptual framework of Westerland (2020) is based on two ethical dimensions: the human ethics bureau that appoints smart robots (moral representatives as moral representatives of robots), as well as "robots as objects of moral judgment" (robots) as objects of moral behavior due to smart robots.). Ethical adjustments in society) Furthermore, Westerland's (Ibid.) Frame introduces four ethical perspectives on robots: one is that smart robots are passive and questioning tools, and the second is that smart robots adopt ethical behavior in society and thirdly that smart robots are ethical and busy representatives of society. These perspectives are unique but not worth seeing. At the same time, it suggests that the framework could be used as a valuable tool to investigate public opinion regarding smart robots. Services and products of the company in the role of the robot, smart, responsible and Risk Management robot companies and Andrea Bertolini (2018), the manufacturers and the legal personality of the robot, and the decisions of accountability to their customers. Giuseppe Isle, compiled after the partitions: Communication and interaction between management robots along with their human inhumane potential, consumer compensation, fraud, and personal health: ambiguity of worker surveillance, access parity and financing plans to overthrow robotic building contracts. The robot company, the "company robot", the healthcare bots and the "maintenance robot" are often interchangeable.

By this moment, there's not any legally binding expression in Europeans law, and for that reason, they could be applied as synonymous terms. Even a small shift in significance may be found in that medical care bots have been frequently known as apparatus utilized at the procedure perhaps maybe not medical of patients or older, whereas others could be properly utilized to refer to devices which can be manufactured for different goals, although for mere entertainment.

Adolescent --robot discussion is a special region of designing and query teens are different from other sorts of human-robot interaction was given by Elin A Bjorling in the year 2019. Employing human centered design, we are growing a social network to gather strain and mood data out of adolescents at a public senior high school. To understand adolescent -- robot interaction, we first ran an interaction analysis from the uncontrolled to research and catch adolescents' interactions having a low fidelity social robot model. We also heard that the low fidelity prototype enabled to get strong involvement and rich archival information. From such statistics, further iterations of this EMAR robot design is going to undoubtedly probably likely soon be made, like increasing the conversational sophistication, adding freedom, and physiological behaviors. Future studies will explore the consequence of complexes of both connections and longer-term interactions having a mid-fidelity model. The consequences of a nationwide representative poll of the UK people in their own perceptions of AI were discussed by Stephen cave, Kate Coughlan in the year 2019. The survey solicited answers to eight shared narratives about AI (four positive, four cynical), and opinions about which AI is, just how likely it's to influence economists' life times, and also whether they are able to influence it. Of those

narratives presented, people connected with automation proved most widely known, followed closely with the concept that AI would eventually become better compared to humans. Overall results demonstrated that the most frequent dreams of the effect of AI evoke substantial stress. Just two of those eight narratives elicited more enthusiasm in relation to the concern. Respondents believed that they had no control within AI's development, mentioning that the ability of government or corporations, or variants of technological determinism. Negotiating the installation of AI will necessitate coping with those anxieties.

III. PRINCIPLES OF ROBOTIC SCIENCE AND TECHNOLOGY

With this specific study, we now provide several indications of the definition of ethics within the context of modern negotiations. Traditionally, integrity is really a philosophical or theological topic that assesses the evaluative standards for human behavior and individual behaviors and conclusions. Contemporary ethics has grown from some angles together with the historical concept. Within the last couple of decades, even in our exceedingly complicated societies that seem to be more technologically-scientifically evolving, the attribute of specialized and ethical responsibility for its security effects of actions and activities caused by unrecognizable conclusions has been rising. Group resolutions, complex administrative arrangement, and task distribution and surgical procedures can also be performed by any robots. Many times, it's not possible to put ultimate responsibility on a person or perhaps on a distinct societal organization. Deficiency of significance and careful evaluation of the assortment of accountability has considerably changed the most technically complicated societies over the notion of risk evaluation, thus reducing the significance of injury due to seemingly irresponsible facets. Within this situation, the issue is: who's accountable for the damage brought on by the autonomous robot? Is it a programmer, manufacturer, programmer, or judgment? Obtaining easy answers to a certain issue can be tricky. From the perspective of ethical theories we see that we now have the principles of fantastic expertise, which provides each of the moral recommendations to make conclusions, the small ones create the essential life choices. It impacts the current lifestyle along with our actions in our romantic social relationships. Past the stipulations of the Affair, customs, legacy, and faith, people adopt different moral concepts simultaneously for different functions, for different situations or moments. Which obviously matches them? The moment social numbers come to our livelihood when this sort of thinking comes we confront complex issues, that have a good deal of impact throughout our actions, that is not simple to follow along with back up and issues if most people haven't previously completed biological direction that's contrary to our shared comprehension. In instances like this, the ethics of shared sense contributes to a lot of distinct contradictions: the struggle would be to induce the dearth of managerial tools and judgment. In these conditions, we want logically-critical ethics that is A) implicit, in addition to an undiscovered arrow at the ethics of our great expertise, also in our obsolete ethical socioeconomic base; B) evaluate the causes, benefits, and pitfalls and clarify their source. Inevitably - we don't actually understand that the resort is for its ethics and moral theories we're speaking about. In practice, when compared with general and complicated issues we could consult with these basic, applicable values contained within our difficulties; we could abide with the upgraded morality implemented to issues close to ours, or we try to step upward from the typical prescriptions towards new ethical frontiers.

Paper Topics at Workshop Series Participants Technology Autism 5% Rehabilitation Robots Industry Elderly 5% Children Disabled Liability

Figure 1: Expert's opinions

Morality

Students 3%

The concept of prescriptive ethics, which develops and transcends the principles of moral action, is examined with ethical theories as well as associated principles. These, therefore, reflect the general notions that include ethical axioms, to achieve an inside and organized coherence. In the twentieth century, inspired by Kant and utilization was inspired by the morality - of the issues to be considered by the limitations of traditional moral concept that emerged from the recession - is divided into many different types of morality, justice, rights, feminist ethics, and applied ethics and morality. Ethics, according to merit - may be a very small step, but it is also true that most of life - or the actions or inaction on your moral duty, not the collective. The use of robots for preparation examines not only the merits of morality but also the merits of the concept of pleasure and the effectiveness of the robot. Quality of human life, can any robots donate happiness? Considering the cultural and moral belief that injustice and the need to fully understand some part of the mass of the head called human rights in the plural, the so-called development of world morality is the source from a previous expression. Traditional moralists, many thinkers, as well as traditional thinkers from their environment, however, believe that organisms, the limit of moral observation, and human culture are all linked to these problems. Therefore, the ethical principles and ethical aspects of the brand's new job are pre-assembled, especially in their evaluation as well as personal services. One of the basic principles of morality, the idea of responsibility to be applied, and it is actually only a moral concept. Determine legal responsibility prescriptive principles of ethics, adopted by a group of the culture, or perhaps regulators and professional integrity, and it also defines a set of restrictions. In this particular phase, to examine the human-robot connection, the main significance of this, we will look into the responsibility of saying: this is the source of some of the activities of the representative of the identity of the research and their implications and also something that the patient in a certain way to contribute to the purposes of reflection, in which he assesses the effect of his activities.

IV. CULTURAL DIVERSITY IN THE ACCEPTANCE OF ROBOTS

While assessing the future and present functions of robots within our societies, we all will probably know about the underlying fundamentals and paradigms which influence societal classes and unmarried individuals within their relationship using your machines. Various religions and cultures respect that the intervention insensitive human areas such as reproduction, European treatments, implantations, and solitude otherwise. These differences arise from the ethnic specificities involving the basic principles involving human reproduction, life, and even passing. Lives and cultures, ethnic groups and religions that do not accept most theories of personal life, are first about the inequality or transcendence of individual life expectancy. From these theories, other ethical specificities like solitude and also the boundary between solitude and trace

ability of activities have been all derived. Cultural differences arise from the domain of natural versus artificial. Consider the attitude of unique individuals towards implants or penis implantation; the way human enhancement can possibly be looked at. Bio ethics has started essential discussions. What's the ethics of the individual imagined? What's the understanding of a person being? Last but most certainly not least, the concept of intellect, artificial and human, is susceptible to various interpretations. In the subject of artificial intelligence AI and robotics independently, there's just actually a terrain of dare -- why don't we imagine just how unpleasant it might be out the inner circle of pros. Another important element from this information is the concept of "killer bats". They believed that the introduction of destructive autonomous weapons was more inevitable compared to the military. There is military attention in those combat robots, although sovereign weapons are somewhat faster, safer, better and more powerful than individual soldiers, robots can perform lethal surgeries without human feelings of guilt or fear. Some have commented that the machine responsible for its personal deaths brought about by the autonomous weapon is consistent with all men and women programmed as a weapon. Others are robots capable of making sovereign decisions, similar to notebook system technology, which are prone to "unexplained" errors and omissions. Failure of this robot's ability to inform an enemy of a friend (e.g., a combat warrior) often leads to accidental and unavoidable deaths and injuries. If not, the designers and owners of most autonomous combat robots will be held responsible for its assassination as a result of technology flaws.

Table 1: Different parameters and comments

Apocalyptic threat	25
Ethics on labour	18
Killer robots	17
Robotic servants	13
Effect on skills	5
HRI (Human robot interaction)	5
Environmental effects	3
Rights of robots	8
Liabilities and principles	14.5

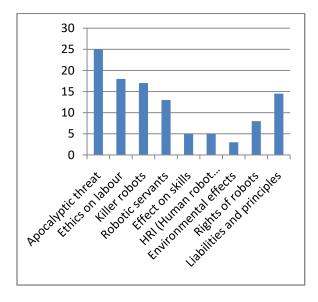


Fig 2: Comments on different related to robots and principles

V. ROBOTICS AND EFFECTS ON LABOUR

Surprisingly, "robotics labor results" is an important factor. Some comments praised the good economies that defy robotics offshore production. Therefore, robots help with local sourcing and give them fresh tasks and good projects. Although the majority of comments are handled negatively, today automation is currently replacing manual and non-manual labor and attack tasks. It claims that robots can work 24/7 and that the government has no power to reward them compared to school-age workers. Recently, this comment suggested a solution to the problem: the use of robots should be restricted to cooperatives, which allow robots for industrial and commercial use and also to men and women who want robots. Recognized revenue streams are used to determine the income of individual employees that came through greater automation and labor reductions due to robots. Simply put, not everyone's comments on robotics along with the future of labor are filled with misery and darkness.

VI. OBLIGATIONS AND RULES OF ETHICS REQUIRED TO ACCEPT ROBOTS

Observed comments on whether the owner or seller of this robot should allow private individuals to obtain the robot in case it needs to be prosecuted in the event of injury or accident. There are also opinions that everyone else may try to blame someone else for a similar situation. In particular, they can find out why manufacturers and designers make decisions that lack of transparency, and find out through their own approaches whether mistakes are the result of a design flaw or something else. However, almost all comments focus on the integrity that dictates the robot's decision-making process, i.e., what "integrity" the robot actually has is coded. Some comments have argued that robots basically exhibit the exact integrity of humans, while some have suggested that integrity is almost always subjective and may not have absolutely relevant integrity. The problem is this: whose morals and values should be represented? If your self-learning system is evolving and developing smoothly, the following confusion is heard. It seems necessary to lead to both inevitable mistakes and unpredictable consequences.

VII. LEGAL ISSUES IN ROBOTICS

Because of such freedom of climbing and anthropomorphic educators, robots are essentially distinct from other synthetic systems and tools and therefore require the growth of new legal structures in which they can (and will) function in society. There is currently no clear legal framework for adding autonomy, problems associated with the behavior of intelligent robots, and separating their own behavior against human behavior. As robot wisdom is provided with their own onboard machines, they are also known for the latest legal frameworks. This explains why, whether we take that suggestion or not, there are no certain rules for maintaining autonomous machines in our current legal arrangements. Furthermore, many of the ethical issues discussed earlier in this chapter may have legal assistance in enforcing them because society relies on law to enforce its moral foundations. Many of the primary legal issues associated with a robots community include accountability, responsibility, character, agency, and loneliness.

VIII. LIABILITY

Obligation is your legal result of liability. In case my robot violates up off your premises, even unintentionally, I'm responsible and accountable. That really is civil accountability. In case it may be demonstrated my robot hurt an individual as a consequence of neglect on my role at the design, programming, or even manufacture of this robot, then I might possibly also be liable. Liability can be a significant reason for legal activity from the USA; it provides income to a lot of attorneys and is overly complex to manage comprehensively in this particular chapter. Even toy robots just such as the RoboSapien have jeopardized Sites together with instructions for hacking on the robot applications and changing their behavior.

IX. HEALTHCARE AND QUALITY OF LIFE THROUGH ROBOTICS

The other subject of service robots at which robot-human interaction is growing rapidly within the industry of health, including surgical, operation, physical therapy, and non-contact assistance throughout rehabilitation and therapy. These improvements are getting to be potential as the possible threat to humans from unintentional robot action declines. This region of robotics keeps growing so fast that individuals may merely signify some common applications. In a societal and ethical outlook, this really can be amongst those areas in robotics that communicates the many sensitive ethical and safety issues. From the technical perspective, bowfins at robot-surgery are taking care of the issues of reduced dexterity, histories, along with European serological input and potential fatal problem, which might arise from a breakdown of surgical systems. From the circumstance of assistive technology, a few questions might be presented regarding the association between the structures by which they're treated. Are we planning to mechanize physicians to dehumanize your own patients? Shall we improve our health arrangements, where individual physicians may worry for patients? Could we not develop brand new physical and psychological dependencies? The discipline of implantations raises concerns linked to how direct brain ports might possibly at precisely exactly the exact same time pose ethical questions about the enhancement of individual functioning.

X. CAREFUL MANAGEMENT OF ROBOTS

Interviewed about their perspectives concerning robots, Europeans taxpayers confirm their own favorable perspectives, but also say concerns. On the 1 hand they say that a pragmatic perspective with nearly all agreeing that "robots will be all necessary since they could perform tasks which are too much or too dangerous for folks" (88 percent) and "robots really are really a fantastic thing for society only because they help people" (76 percent). On the flip side, the wide spread deal with the announcement that "robots really are a kind of technology which needs careful direction" shows that folks also view risks: 91 percent of respondents accept this announcement, while just 6 percent disagree and 3 percent 'do not understand'. The finding that 70 percent of respondents agree the "robots can steal people's tasks" is really just a further manifestation of vexation. You can find fewer consensuses in regards to the opinion that the "widespread utilization of robots may boost job opportunities within the Europeans": 39 percent of respondents agree with this announcement whereas 51% disagree (and 10 percent don't have any opinion). Europeans were subsequently asked if they'd really feel comfortable or not with various activities that would possibly be completed by robots. For this they were requested to use a scale from 1 to 10, where 'inch' ensures they would feel 'totally uncomfortable', also 10 which they would feel 'totally comfortable'. Near 50% of Europeans citizens (48 percent) would feel 'comfortable' (points seven to 10 on the scale) requiring the aid of a robot in the job (e.g. in manufacturing), only in five (21 percent) would believe 'fairly comfortable' in that case (points 56 on the scale) and a quarter (27 percent) would feel 'uncomfortable' (points 1 to 4 to the scale). At another 3 scenarios presented, almost all would believe 'uncomfortable': an average of, 86 percent might feel 'uneasy' about using their kids or older parents intrigued by means of a robot (in reality, 66% picked point 1 about the scale, so 'totally uncomfortable'), 6-9% might feel 'uneasy' about using their pet walked by way of a robot (47 percent 'totally uncomfortable') and 5-7% might feel 'uneasy' about using a health surgery performed on these with way of a robot (37 percent 'totally uncomfortable').

XI. CONCLUSIONS

Robots are usually well perceived from the Europe, nevertheless they elicit mixed opinions: Europe comprehends their benefits particularly at work, however in addition they say concerns in saying that robots need to be handled carefully. The simple fact they would really feel comfortable using a robot assisting them in the job, however uneasy using a robot minding their kids or their older family relations exemplifies well these mixed feelings. This is a significant driver of attitudes involving robots: the further curious in mathematics people are that the positive men and women are towards robots. Nearly all Europeans express that the graphic of an instrument-like machine utilized within the workplace and also the image of some humanlike machine helping at your house both correspond well for their own idea of robots. But, they have been more inclined to consider robots as instrument-like machines compared to as machines that are analog.

While Europeans taxpayers have thoughts about that which robots seem, perhaps maybe not a lot have direct personal connection with these; the poll indicates that half of respondents used or currently use robots at your house and also an equal percentage purchased or currently work with a robot on the job. In general, a lot significantly more than two thirds of European taxpayers have a confident perspective of robots Nevertheless, further investigations demonstrate that people considers this, while bots serve a pragmatic function and are of use for tasks which are too dangerous or problematic for humans, and also their usage however necessitates attentive direction. Europeans taxpayers say wide spread concern that robots can steal people's tasks; but a sizeable minority believes that robots can boost job opportunities in the Europeans. Within this circumstance, it's perhaps not surprising to discover that Europeans taxpavers have a very clear record of preferences in regards to the areas by which bots should be properly used. While there's strong support for its usage of robots in space mining and production, there's blatant resistance to their usage to look after individuals. By way of instance, Europeans citizens might feel very uneasy when your robot were accustomed to maintain their kids or older parents and sometimes to even walk their own dog. In precisely exactly the exact same period, over fifty percent may accept the thought of a robot assisting them in the office. But, most this really is prospective speak with the majority of Europeans, as not many pictures it will soon be predominant for most robots to perform.

REFERENCES

- [1]. Devlin, H. 2016. Do no harm, don't discriminate: official guidance issued on robot ethics. The Guardian, 18 September 2016.
- [2]. During, N., &Poeschl, S. 2019. Love and Sex with Robots: A Content Analysis of Media Representations. International Journal of Social Robotics,
- [3]. Flock, B., "Perceptions of robotics emulation of human ethics in educational settings": a content analysis. Journal of Research in Innovative Teaching & Learning, 11(2).
- [4]. Gardiner, B., Mansfield, M., Anderson, "The dark side of Guardian comments,", The Guardian, 12 April 2016.
- [5]. Hole, Y., &Snehal, P. &Bhaskar, M. (2018). Service marketing and quality strategies. Periodicals of engineering and natural sciences,6 (1), 182-196.
- [6]. Stokes, P., & Urquhart, C. 2013, "Qualitative interpretative categorization for efficient data analysis in a mixed methods information behavior study,"
- [7]. Torresen, J. 2018, "A Review of Future and Ethical Perspectives of Robotics and AI," Frontiers in Robotics and AI, 4:75.
- [8]. Tsafestas, S. G. 2018. "Roboethics: Fundamental Concepts and Future Prospects". Information, 9(6), 148.
- [9]. Veruggio, G., &Operto, F. 2006. Roboethics: a Bottom-up Interdisciplinary Discourse in the Field of Applied Ethics in Robotics. International Review of Information Ethics, 6: 2–8.
- [10]. Veruggio, G., &Operto, F. 2008. Roboethics: "Social and Ethical Implications of Robotics," In Siciliano, B. &Khatib, O.
- [11]. Veruggio, G., Solis, J., & Van der Loos, M. 2011. Roboethics: Ethics Applied to Robotics. IEEE Robotics & Automation Magazine, 18(1): 21–22.
- [12]. Westerlund, M. 2020, "An Ethical Framework for Smart Robots. Technology Innovation Management Review," 10(1): 35–44.
- [13]. J. Weizenbaum, "Computer Power and Human Reason: From Judgment to Calculation", (Freeman, New York 1976)
- [14]. PeddiPrasadu (2020), Public auditing mechanism to verify data integrity in cloud storage, International Journal of Emerging Trends in Engineering Research, 2020, 8(9), pp. 5220–5225.
- [15]. J. Moor: What Is Computer Ethics?. In: Computer and Ethics, ed. by T.W. Bynum (Blackwell, New York 1985)
- [16]. Melson, G. F., Kahn, Jr. P.H., Beck, A., & Friedman, B. 2009. Robotic Pets in Human Lives Implications for the Human-Animal Bond and for Human Relationships with Personified Technologies. Journal of Social Issues, 65(3): 545–567.

- [17]. Muller, V. C., &Bostrom, N. 2016. Future progress in artificial intelligence: a survey of expert opinion. In V. C. Müller (Ed.). Fundamental Issues of Artificial Intelligence. Berlin: Synthese Library, Springer, 553–571.
- [18]. Operto, S. 2019. Evaluating public opinion towards robots: a mixed-method approach. Paladyn, Journal of Behavioural Robotics, 10(1): 286–297.
- [19]. Steinert, S. 2014. The Five Robots—A Taxonomy for Roboethics. International Journal of Social Robotics, 6: 249–260.
- [20]. Stokes, P., & Urquhart, C. 2013. "Qualitative interpretative categorization for efficient data analysis in a mixed methods information behavior study."
- [21]. Torresen, J. 2018, "A Review of Future and Ethical Perspectives of Robotics and AI".