International Journal of Education, Information Technology and Others (IJEIT), December 2024, 7 (4), 368-377
DOI: https://jurnal.peneliti.net/index.php/IJEIT/article/view/10913
p-ISSN: 2654-2528 e-ISSN: 2623-2324
Accredited by Directorate General of Strengthening for Research and Development
Available online at https://jurnal.peneliti.net/index.php/IJEIT

Philosophy's Contribution to Cultural Transformation in The Era of Technological Revolution

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Received: 3 December 2024
Revised: 12 December 2024
Accepted: 26 December 2024

Abstract

The Fourth Industrial Revolution, with disruptive technologies such as artificial intelligence, IoT, and big data, brings significant changes to the way we live, work, and our cultural values. Philosophy plays a crucial role in preserving fundamental values, ensuring that culture remains adaptable without losing its essence amidst these transformations. Through a critical approach, philosophy aids in designing an inclusive and humanistic future, addressing ethical, epistemological, and ontological challenges. In ethics, philosophy tackles issues like privacy, algorithmic bias, and social inequality through deontological and utilitarian approaches. In epistemology, it promotes digital literacy to distinguish between true and false information, while in ontology, it explores the impact of technology on identity and reality. Furthermore, philosophy contributes to cultural transformation by promoting sustainability and preserving local heritage, guiding technology and culture toward a more just and sustainable future.

Keywords: Philosophy, Cultural Transformation, Industrial Revolution

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How to Cite: Anggraeni, S., Sadiyah, N., Mahardika, I., & Suratno, S. (2024). Philosophy's Contribution to Cultural Transformation in The Era of Technological Revolution. *International Journal of Education, Information Technology, and Others*, *7*(4), 368-377. Retrieved from https://jurnal.peneliti.net/index.php/IJEIT/article/view/10913

INTRODUCTION

In recent decades, the world has witnessed rapid technological advances, especially with the arrival of the fourth industrial revolution or often referred to as the Industrial Revolution 4.0. This era is characterized by the emergence of disruptive technologies such as artificial intelligence, internet of things (IoT), big data, and virtual reality, which bring major changes to various aspects of human life (Haqqi, & Wijayati, 2019). The technological revolution has not only affected the way we work and communicate, but it has also changed the mindset, values, and social norms that have shaped our culture. According to (Alfiyanti et al., 2023) the tools produced in technological advances should be able to provide more happiness in human life but in reality it has an impact on declining mental health such as feeling more depressed and tense, thus reducing the sense of happiness. This phenomenon raises fundamental questions about how humans should adapt and respond to these rapid changes without losing their cultural identity.

In the midst of these dynamics, philosophy is present as a discipline that provides a framework for critical thinking in understanding and directing cultural transformation (Muzakir, et al., 2024). As a science rooted in reflective and critical thinking, philosophy plays an important role in investigating the meaning, purpose, and implications of the technological changes we are experiencing. Philosophy helps us identify what values need to be preserved so

that we don't get swept up in the tide of change. On the other hand, philosophy also offers a new perspective that opens space for culture to develop adaptively, in line with technological developments without losing its essence (Warami, 2018).

Philosophy has a significant contribution in framing the ethical, epistemological, and ontological issues that arise in this technological era (Nagatsu, et al., 2020). Issues such as data privacy, the ethics of artificial intelligence, and the phenomenon of "virtual worlds" are conversations that require not only technical solutions, but also a deep understanding of their impact on human life. Thus, philosophy serves not only as a theoretical reflection, but also as a practical guide to designing an inclusive and humanist cultural future in the midst of an increasingly complex digital era.

In this article, I will explore how philosophy can contribute to shaping sustainable cultural transformation in the era of technological revolution. From ethical studies to reflections on human identity in the digital world, philosophy offers much-needed perspectives to steer this transformation to remain grounded in human values.

RESEARCH METHOD

This article uses a literature study method, which is data collection that aims to understand and study theories from various relevant literature sources. According to Sugiyono (2018), literature study involves a study of theories, values, culture, and norms that develop in a particular social context. This method is carried out by collecting sources such as books, journals, and previous research, which are then critically analyzed to support research ideas and propositions.

This article also applies the Systematic Literature Review (SLR) method. SLR provides a structured approach to systematically reviewing a topic, thereby reducing potential bias and researcher subjectivity. This approach is carried out by following certain stages and protocols as described by Eva Putriany & Dhani Ariatmanto (2024). The SLR method in this article refers to the PRISMA (Preferred Reporting Items for Systematic Review) framework, which consists of five main stages (Deniswara & Sopiah, 2023):

1. Defining eligibility criteria: The data used was taken from Google Scholar through the Perish or Publish version 8 application, covering literature for the last five years (2019-2024).
2. Defining information sources: The main source of information comes from Google Scholar, with the help of the Perish or Publish application.
3. Literature selection: The literature selection process was conducted using keywords such as "philosophy," "digital transformation," and "industrial revolution." The search was conducted in Indonesian.
4. Data collection: From a keyword-based search through Google Scholar, 302 articles were found. The articles were then screened based on inclusion and exclusion criteria, starting with reading the title of the study. From this process, 50 articles were selected as they met the initial parameters.
5. Selection of data items: Of the 50 articles collected, further screening was conducted by reading the full text quickly to evaluate the suitability of the article content to the research objectives. Articles that were suitable for in-depth analysis were those that were relevant to the research objectives. This

analysis included article identity, title, objectives, methodology, results, conclusions, and other important matters. This process resulted in 20 articles that were deemed appropriate, which were then reviewed and analyzed to answer the research objectives.

RESULTS AND DISCUSSION

Philosophical Contributions: Technological Ethics

The technological revolution brings with it a number of complex and profound ethical dilemmas that demand a strong value framework to ensure technology is used responsibly. Artificial intelligence (AI) technology, for example, raises critical questions about the ethical boundaries of its use and its impact on human life. According to Masrichah, (2023) along with the advancement of AI, there are real risks related to privacy, such as the potential misuse of personal data, to the violation of individual rights if this technology is used without considering clear and adequate ethical principles.

AI also threatens to create greater social and economic inequality if these technologies are not carefully regulated (Adha, 2020). AI algorithms, for example, can reinforce existing biases or discrimination if the data used is not neutral or if the resulting decisions are not ethically evaluated. Therefore, solid ethical guidelines are necessary for the technology to benefit everyone, not just for a few groups or interests. The role of ethical philosophy is crucial, as it provides moral guidance for dealing with sensitive issues such as privacy, security, justice, and responsibility in the development and application of new technologies (Nasruddin, et al., 2024). Ethical philosophy provides the conceptual tools needed to assess the long-term impact of technology, and encourages technology developers and users to consider the moral consequences of their actions.

This is where ethical philosophy plays a central role in shaping the norms needed to maintain the balance between innovation and human values. The thinking of philosophers such as Immanuel Kant, through his principles of deontology, emphasizes that human actions should be subject to moral responsibility and universal principles that uphold human dignity (Rorah, et al., 2023). In the context of technology, this Kantian deontological approach can be applied by setting certain limits on the use of technology, ensuring that individual rights are respected and not sacrificed for the sake of technological progress alone.

Meanwhile, the utilitarianism ethics approach pioneered by Jeremy Bentham offers another perspective in considering the impact of technology on collective welfare (Ashri, 2018). In utilitarianism, ethical decisions are measured by the extent to which the action brings happiness or well-being to as many people as possible. This ethic is particularly relevant in the development of technologies that have the potential to affect the lives of millions of people, where decisions should always consider broad social impacts and not just focus on economic gain or technological advancement.

Combining the principles of these two ethical approaches as a rationale can result in a balanced policy that puts human beings at the center of technological development. With philosophy as a foundation, policies and regulations related to technology can be structured to ensure that technological progress remains grounded in human values. These moral principles not only help

minimize the risks or harms that may arise from unregulated technology, but also ensure that technology can contribute to the overall progress and well-being of society, while still respecting the rights and dignity of every individual.

Philosophy's Contribution: Digital Epistemology

The current digital era also brings society into a situation where information is available in very large quantities and can be accessed anytime and anywhere (Juliana, et al., 2023). However, this rapid and massive flow of information brings not only benefits, but also major challenges. This flood of information has triggered the increasingly troubling phenomena of misinformation (the dissemination of false information without malicious intent) and disinformation (the dissemination of false information with the intention of misleading). Many people find it difficult to separate true and trustworthy information from rumors, baseless opinions or even fake news. This results in negative impacts, ranging from the formation of erroneous opinions to social divisions driven by hoaxes.

In this case, the philosophy of epistemology plays an important role. As a branch of philosophy that studies the nature, sources, and limits of knowledge, epistemology provides a conceptual framework for questioning, identifying, and criticizing the validity of the information we receive (Maksum, 2023). Epistemology teaches us not to take information for granted, but to examine and analyze the various factors surrounding it, such as the origin of the source, the method of delivery, and the purpose of the information. In the context of the digital age, epistemology is more important than ever, as this skill can help people understand what is valid information and what is manipulation or even fraud. Critical thinking skills honed through philosophy allow people to sort through information more carefully. Through basic epistemological principles, such as skepticism, which encourages healthy doubts about information before acceptance, and empiricism, which emphasizes the importance of tangible evidence, people can better question and evaluate the validity of information (Mukhlis, et al., 2022).

Skepticism teaches us not to take information for granted, but to always look for evidence or arguments that support the truth of the information. Empiricism, on the other hand, directs us to look at information that is based on observation or empirical evidence, not just baseless opinions or assumptions. The discussion of epistemology in this context also highlights the importance of verification methods and scientific standards that are the basis for the process of seeking truth (Maksum, 2023). In an era where anyone can disseminate information, solid verification methods have become increasingly important. Verification is a process that involves the steps of fact-checking, investigating the source of information, and comparing with other relevant data or findings. Scholarly standards, such as the use of reliable references and transparent research methods, are very helpful benchmarks for the public in determining whether information has a strong foundation. This is an important principle in developing critical digital literacy, so that people are not only passive consumers of information but also able to criticize and assess its validity.

As such, philosophy contributes greatly to improving digital literacy which is much needed in this era. Digital literacy is not only about the ability to access information, but also includes the skills to interpret, criticize, and evaluate information carefully (Nasruddin, et al., 2024). Philosophy provides intellectual tools to equip people to deal with the flood of information that is often confusing and misleading. As digital literacy skills improve, communities can become more resilient in the face of misinformation and disinformation phenomena, and better able to protect themselves from manipulation or propaganda that can disrupt social integrity and peace.

In this digital age, epistemological philosophy helps people to develop a more thoughtful and reflective attitude in dealing with information. It is not just a matter of choosing the right information, but also understanding how the process of receiving that information affects our daily views and actions. By relying on epistemological principles in sorting out information, society can be better protected from the risk of information fraud and better equipped to build a digital culture based on truth, clarity and integrity.

Philosophy's Contribution: Ontology of Virtual Worlds

The technological revolution has brought major changes to the way humans understand and define themselves, including in the aspect of identity. In the digital era, individuals have the ability to create various virtual identities through social media, avatars, or other platforms such as the metaverse (Gusteti, et al., 2023). This virtual identity is often different from one's physical identity in the real world, both in terms of appearance, behavior, and personality displayed. Philosophy, especially through the study of existentialism, questions whether this virtual identity functions as a complement to physical identity or even replaces it (Murtianingsih, et al., 2024). In virtual worlds, individuals have the freedom to experiment with certain aspects of themselves, which may not be expressible in real life. However, philosophy also warns of the risks behind this phenomenon, such as loss of authenticity, alienation from real identity, or the formation of a reality that relies too much on virtual imagery.

On the other hand, the concept of reality is becoming increasingly complex with the presence of technologies such as virtual reality (VR) and the metaverse. These technologies create alternative realities that increasingly resemble the real world, both in terms of visuals, social interactions, and emotional experiences. In the philosophy of ontology, reality is not only defined as what is physically real, but also as what is experienced and felt by individuals (Murtianingsih, et al., 2024). This raises a fundamental question: does the virtual reality created by this technology have the same ontological status as physical reality? For example, if the experience felt in VR is as authentic as the experience in the real world, does the virtual reality deserve to be considered equivalent to physical reality? These questions are at the center of the philosophy of ontology, which explores how humans should understand the world as the boundaries between physical and virtual reality become increasingly blurred.

The implications of this ontological shift extend to culture and the way humans interact. In traditional cultures, reality and identity are often closely associated with one's physical presence and direct interactions in Society (Arianto,

2024). However, with virtual reality, humans can build a new culture that is entirely digital, with rules, values and norms that are different from the real world. Philosophy plays a role in understanding this impact, including how humans should navigate between the physical and virtual worlds without losing their human essence. Thus, philosophy not only helps explain this phenomenon, but also provides ethical and existential guidance for humans to live authentically in an increasingly digital world.

Cultural Transformation: Aligning Traditional Cultural Values and New Technology

Culture is a legacy of values, habits, and knowledge that is passed down from generation to generation. In the context of globalization, culture undergoes rapid and dynamic transformation (Ayu et al., 2022). This transformation is influenced by various factors, such as digital technology, urbanization and climate change. On the one hand, technology enables faster and more equitable cultural exchange. However, on the other hand, cultural homogenization threatens the diversity of local cultures that are vulnerable to extinction. In addition, the environmental crisis, which includes climate change, pollution, and species extinction, threatens the sustainability of the earth as a place to live together (Alfiyanti et al., 2023). When people are trapped in unsustainable consumption patterns, these negative impacts worsen. A cultural transformation that focuses solely on economic growth without considering its environmental and social impacts can result in long-term consequences that are detrimental to future livelihoods. Therefore, thinking about a sustainable future is important so that this cultural transformation remains harmonious with nature and the values that underlie human survival.

Technology can be a useful tool in supporting a sustainable culture. Through digital innovation, awareness about sustainability can be disseminated quickly, and people can access information on how to live more sustainably. Technology also enables cultural preservation through digitization and documentation, so that values and traditions can be passed on to future generations. However, the use of technology must be balanced with consideration of its environmental and social impacts (Ayu et al., 2022). Digital platforms, such as social media and educational apps, can be used to spread information about the importance of sustainability and encourage an environmentally friendly cultural change. Technology can also support sustainability through innovations that reduce emissions, use renewable energy, and minimize waste. For example, innovations in clean energy and recycling technologies can help people adopt greener lifestyles. Digital technology allows local cultures to be documented and disseminated. Through digitization, cultural heritage can remain alive and known by the next generation, regardless of the times.

Despite its many advantages, sustainability-oriented cultural transformation also faces challenges. Obstacles such as lack of awareness, reliance on environmentally unfriendly consumption patterns, and resistance to cultural change are barriers that need to be overcome. However, there is hope that with education, global cooperation, and responsible innovation, society can steer culture towards a more sustainable future.

Philosophy's Contribution in the Era of Technological Revolution: Critical Thinking and Digital Literacy

In the era of the Technological Revolution characterized by the rapid advancement of artificial intelligence (AI), big data, and the Internet of Things (IoT), the ability to think critically becomes one of the most important skills (KK & Maharani, 2023). Critical thinking involves the ability to analyze, evaluate, and make decisions based on logic and reliable evidence. In the context of technology, this ability helps individuals to understand the impact of innovations such as AI algorithms, which are often perceived as neutral but can actually carry hidden biases (Pasaribu & Widjaja, 2022). For example, algorithms in AI-based recruitment systems may discriminate against certain groups if their training data reflects historical inequalities. By thinking critically, users can identify and prevent such potential misuse of technology.

Digital literacy, which includes the ability to understand, evaluate and use technology wisely, is an urgent need in the midst of massive and complex information flows (Mauludi, 2020). Philosophy contributes by providing a deep framework for thinking about ethics, values, and responsibility in using technology. In an era where hoaxes and disinformation spread rapidly through social media, philosophy teaches the importance of asking questions about the source of information, the purpose of communication, and the impact of content dissemination. Thus, digital literacy guided by philosophical thinking can build a more critical and responsible society in facing digital challenges.

Philosophy's contribution is also strongly felt in teaching people to consider the moral and ethical aspects of technology (Heryadi, et al., 2024). Advancements such as deepfakes, which allow realistic manipulation of faces and voices, raise profound moral dilemmas, such as threats to privacy and honesty. The philosophical approach helps us to formulate ethical principles that can guide the development and use of technology (Adriyansah, et al., 2024). For example, philosophy can help answer questions like: What are the limits of using technology for entertainment? How to ensure that technology does not harm the vulnerable? The answers to these questions can form the basis for justice-oriented policies and regulations.

It can be concluded that philosophy provides a foundation for the creation of a healthy digital culture. By encouraging critical thinking, people can avoid pitfalls such as opinion polarization due to social media algorithms that only show information that is in line with their preferences (filter bubble phenomenon). Furthermore, philosophy helps us see the long-term impact of technology on social relations, environmental sustainability and human values. By combining digital literacy and philosophical thinking, people become not only savvy users of technology, but also agents of change who are able to direct technological advancements to create a more just, inclusive and meaningful world.

CONCLUSION

Philosophy plays an important role in the technological revolution by providing ethical, epistemological, and ontological guidance to the changes taking place. In ethics, philosophy helps address moral dilemmas such as privacy,

algorithmic bias, and social justice, using approaches such as deontology and utilitarianism to ensure technology is used responsibly. In epistemology, philosophy develops critical literacy of information in the digital era, helps people distinguish facts from manipulation, and builds a truth-based digital culture. In ontology, philosophy opens discussions about identity and reality amid technological developments such as virtual reality and the metaverse, and how to maintain self-authenticity in the digital world.

Philosophy also contributes to cultural transformation by providing a vision of a sustainable future, respecting diversity, preserving local traditions, and creating eco-friendly lifestyles. By integrating ethics, epistemology, and ontology, philosophy helps society face the challenges of the technological revolution in a reflective and responsible way, and directs technological and cultural transformation towards a just, inclusive, and sustainable future.

SUGGESTIONS

Further research can focus on the ethical impact of disruptive technologies on human rights, privacy, and social justice, as well as the development of a digital literacy curriculum to distinguish valid information from hoaxes. In addition, it is important to examine the ontological impact of virtual reality and the metaverse on human identity, as well as the role of philosophy in preserving local culture in the digital era. Research also needs to explore the relationship between technology, social justice and economic inequality, as well as a comparison of ethical approaches to technology across cultures to resolve the ethical dilemmas that arise.

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