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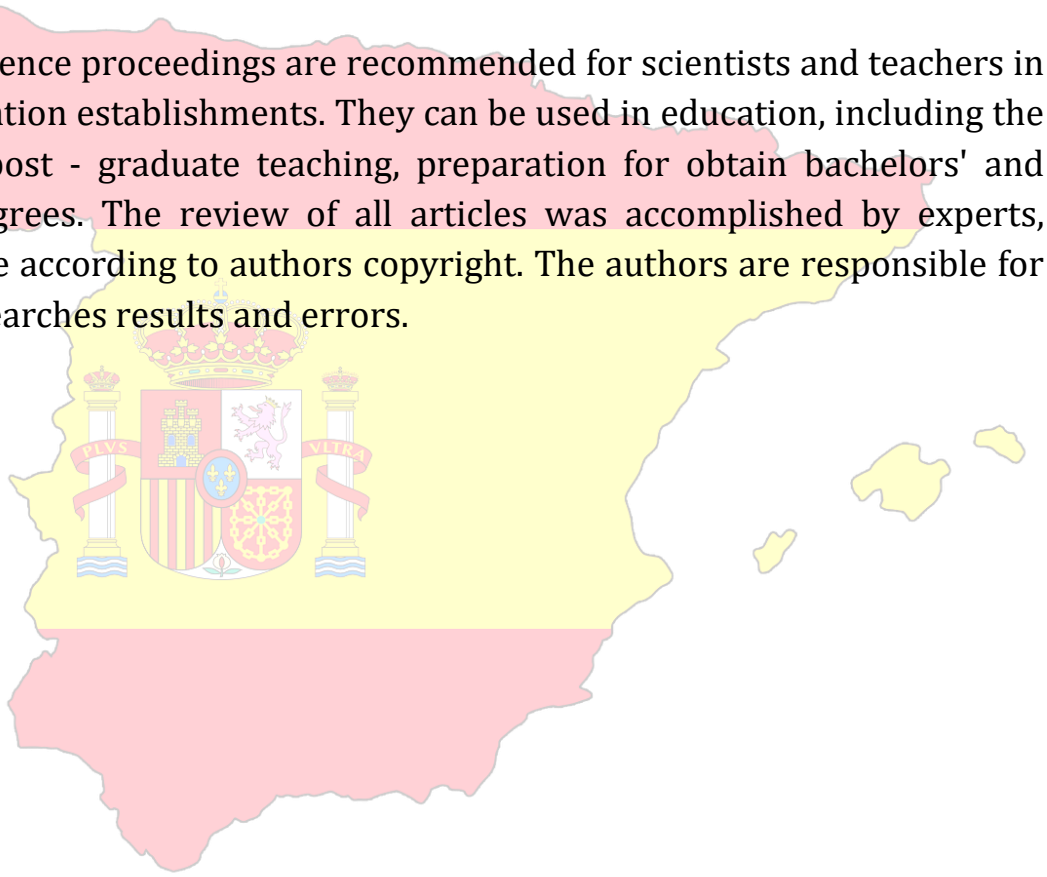

THE MODERN TECHNOLOGICAL WORLDVIEW AND ITS ROLE IN SOCIETAL DEVELOPMENT

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Abstract: This article discusses the concept of a modern technical worldview, its formation factors and its role in modern society. It discusses how the human worldview has changed as a result of the development of science and technology, and how these changes affect social, cultural and economic life. The article analyzes the importance of modern technical thinking, its role in the education and production system, and makes suggestions based on the results.

Keywords: Modern technical worldview, innovation, technology, social progress, technical thinking, digital transformation, education, production.

In the context of modern globalization and technological revolution, humanity's worldview is undergoing fundamental changes. The rapid development of technology and technological advancements is not only shaping the sphere of production but also redefining the way people think and perceive the world. By "technical worldview," we mean the ability to comprehend phenomena such as technological achievements, digital transformation, artificial intelligence, automation, and their application in human life. This article conducts an in-depth analysis of the role this modern technical worldview plays in the development of society.

Scientific sources divide the formation of modern technical thinking into several stages. Among these, the industrial revolution that began in the 19th century, the computerization process in the 20th century, and the digital revolution in the 21st century are distinguished as the main phases. For instance, A. Toffler's work "The Third Wave" demonstrates the impact of technological changes on the structure of society. In a society founded on high technology, thinking, professions, and culture also adopt a form based on technical knowledge. Another significant source is M. Castells's work "The Information Age," which analyzes the influence of information technologies on the social environment in contemporary society.

The following methods were employed in the writing of this article:

Analysis and synthesis - the scientific foundations of the modern technical worldview were studied and synthesized.

Comparison - theoretical perspectives obtained from various sources were juxtaposed and interpreted within a social context.

Empirical observation - concrete examples based on patterns of technical thinking in the spheres of education, production, and social relations were presented.

The modern technical worldview is a paradigm that has fundamentally changed humanity's way of perceiving the world, acquiring knowledge, developing production, and shaping social relations. This worldview, founded on scientific and technological progress, brings about significant changes across various spheres of society - economics, education, healthcare, ecology, and social life. The following section examines in detail the role of the modern technical worldview in the development of society.

The essence of the modern technical worldview

The modern technical worldview is a perspective based on the scientific approach, technological innovations, and digital tools in a person's perception of nature, society, and themselves. It is characterized by the following main features:

- Scientific foundation: Understanding the world and solving problems through scientific research and experimentation.
- Technological innovations: The implementation of artificial intelligence, big data, blockchain, robotics, and other technologies in various spheres of life.
- Digital transformation: The exchange of information and the development of global connections through the Internet, social networks, and cloud technologies.
- Automation and efficiency: optimization of work processes and facilitation of human labor.

This worldview views a person not only as a consumer but also as a creator and developer of innovative solutions.

Role in the development of society

Modern technical worldview has a great influence on the development of various spheres of society. Its impact in key areas is discussed below:

Economic development

Technological achievements play an important role in modernizing the economy:

- Production efficiency: Automation and robotics reduce costs in industry and increase productivity. For example, in Germany, thanks to the "Industry 4.0" initiative, smart factories have optimized production processes.
- New economic models: New business models emerged through digital platforms (Uber, Airbnb) and e-commerce (Amazon, Alibaba).
- Innovative ecosystems: Startups and technology incubators create new economic opportunities. Centers like Silicon Valley play a leading role in the global economy.
- Jobs: Technologies have created new professions (for example, data analyst, artificial intelligence engineer), but at the same time, they have created a risk of losing traditional professions, which requires flexibility in the labor market.

Education and knowledge sharing

The technical worldview democratized the field of education:

- Online education: platforms like Coursera, Khan Academy, and edX have allowed millions of people to access quality education free of charge or at affordable prices.
- Virtual and augmented reality (VR/AR): These technologies make the educational process interactive and immersive, for example, medical students can gain experience through virtual operations.
- Knowledge sharing: Through the Internet and social networks, knowledge is disseminated on a global scale. For example, open source software (open-source software) and open scientific article resources (arXiv) made knowledge accessible to everyone.
- Problem: Excess information and the spread of fake news require the development of analytical thinking and information filtering skills.

Healthcare

Technological innovations have brought revolutionary changes to healthcare:

Telemedicine: Remote consultations, especially during the pandemic, have expanded access to medical services.

- Artificial intelligence: AI-based diagnostic systems (for example, DeepMind or IBM Watson) show high accuracy in disease detection.
- Genetic engineering: technologies like CRISPR allow for the treatment of hereditary diseases.
- Medical Devices: Smart watches and sensors (such as Apple Watch) help monitor health status in real-time.
- Problem: The problems of medical information confidentiality and excessive dependence on technology remain relevant.

Social changes

The technical worldview changes social structures:

- Global communication: Social networks (X, Instagram, Telegram) have united people, but they also serve as a source of information manipulation and social polarization.
- Cultural exchange: Different cultures converge through digital platforms, which can reduce misunderstandings on a global scale.
- Problem: Digital inequality (digital divide) - regions or social groups that lack access to internet and technology lag behind in development.

Ecological stability

The technical worldview plays an important role in solving environmental problems:

- Green technologies: Solar and wind energy, electric vehicles (such as Tesla) contribute to reducing carbon emissions.
- Smart Cities: IoT and big data allow for the optimization of urban infrastructure, efficient use of transport and resources.
- Problem: Electronic waste, battery recycling, and excessive resource use create environmental problems.

Problems and risks

Along with the advantages of the modern technical worldview, it also raises a number of problems:

- Ethical dilemmas: the impact of AI and automation on workplaces, personal data confidentiality, and the misuse of artificial intelligence (e.g., deepfake).
- Digital inequality: Countries or social groups that lack access to technology are lagging behind in development.
- Psychological impact: Social media addiction, excessive information, and mental health problems.
- Environmental risk: The impact of technological production on the environment, such as the extraction of rare minerals and electronic waste.

Modern technical worldview serves as an important catalyst for the development of society. It increases economic efficiency, expands access to education, improves healthcare, and helps solve environmental problems. However, its negative consequences - ethical problems, digital inequality, and environmental risks - require attention. Society must responsibly manage technology, develop ethical norms, and strengthen global cooperation to fully utilize the benefits of this worldview. Thus, the modern technical worldview can ensure a stable and just future for humanity.

The influence of modern technical worldview on society is not only positive, but also gives rise to some negative aspects. Excessive fascination with technology distances

humanity from nature, making it dependent on an artificial environment. At the same time, technical thinking can displace individual creativity and emotional thinking. However, this risk depends on how the technology is used. If technical thinking is developed on the basis of the principles of humanism and social justice, it will become a powerful factor in the development of society.

Modern technical worldview has become one of the main factors in the development of society. This form of thinking requires a deep understanding of technology, its use in useful directions, and a new approach to solving global problems.

To expand the range of subjects, practical exercises, and project work that develop technical thinking in the education system.

Develop programs for the formation of a culture of conscious use of technologies among young people.

Support innovative projects in society that maintain the harmony of technical thinking with aesthetic and moral values.

To promote the consideration of technical thinking not only as a means of production or profit, but also as a factor ensuring harmony between man and nature.

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