

ROBOTIC INTEGRATION IN OUR LIVES

Matvii Ilchenko

*Educational and Research Institute of Nuclear and Heat Power Engineering,
National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute»*

Robots as Helpers: Robots are becoming an integral part of our daily lives, seamlessly performing a wide range of tasks, from the simplest to the most complex. They provide invaluable assistance across various domains, including household chores, healthcare, education, and numerous other sectors.

Economic Benefits: The incorporation of robots into various industries can yield substantial economic advantages. Robots are capable of working tirelessly around the clock without fatigue or the need for rest. This non-stop operation significantly boosts overall productivity and output, potentially leading to increased profits for businesses.

Resource Conservation: Robots contribute to the conservation of natural resources due to their efficient use of energy and materials. They are designed to optimize resource consumption, which is especially important in a world where

sustainability and resource management are growing concerns.

Safety and Security: Robots are engineered to operate in hazardous or risky environments where human presence may be dangerous. This enhances overall safety by minimizing human exposure to potentially harmful situations, making it a valuable tool in industries such as manufacturing, construction, and emergency response.

Education and Learning: Robots can serve as effective tools for educational purposes. They offer interactive learning experiences and practical training opportunities. This is particularly beneficial for students and professionals who seek hands-on experience and real-world applications.

Healthcare and Care: Robots play a significant role in the healthcare sector by assisting in the care of patients, especially those who are ill or elderly. They can perform tasks like medication reminders, physical assistance, and monitoring, thereby alleviating the workload of healthcare professionals and providing improved care.

References:

1. World Economic Forum, (2023) Robots as Helpers. Retrieved from: <https://www.weforum.org/agenda/2023/07/robots-ai-help-humans-at-work/>.
2. Infineon Technologies, (2023). Safety in Factories with Robotic Systems. Retrieved from <https://www.infineon.com/cms/en/discoveries/robotics-systems-safety-security/>.
3. SpringerLink, (2021). Robotics in Education: A Smart and Innovative Approach to the Challenges of the 21st Century. Retrieved from https://link.springer.com/chapter/10.1007/978-3-030-77040-2_3

The topic of my work is energy-saving technologies.

And I would like to focus more on technologies that are directly useful to ordinary people, on technologies that have a clear example of practical application in the lives