

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
H.S. Skovoroda Kharkiv National Pedagogical University
SSI “Institute of Education Content Modernization” (Ukraine)
Babeş-Bolyai University (Romania)
Ludwigsburg University of Education (Germany)
Mid-West State University – UNICENTRO (Brazil)
Northeastern University of Boston (the USA)
Sinop University (Turkey)

CONFERENCE PROCEEDINGS

**IV International Scientific and
Practical Conference**

EUROPEAN STUDIES. LEARNING AND TEACHING: IN THE WORLD OF TECHNOLOGIES

»
**Kharkiv,
Ukraine –
Cluj-Napoca,
Romania
November 12,
2025**



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**To the 80th Anniversary of the
University Being Named after H. S. Skovoroda**

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**Kharkiv
2025**

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
Харківський національний педагогічний
університет імені Г. С. Сковороди (Україна)
ДНУ «Інститут модернізації змісту освіти» (Україна)
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*До 80-річчя від присвоєння
університету імені Г.С. Сковороди*

ЗБІРНИК МАТЕРІАЛІВ
IV Міжнародна
науково-практична конференція
«ЄВРОПЕЙСЬКІ СТУДІЇ.
НАВЧАННЯ І ВИКЛАДАННЯ:
у світі технологій»

(Харків, Україна – Клуж-Напока, Румунія)

12 листопада, 2025

Харків
2025

UDC 37.011:37.014.5:37.016

<https://doi.org/10.5281/zenodo.17350719>

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European Studies. Learning & Teaching: In the World of Technology :

Conference Proceedings of the IV International Scientific & Practical Conference, Kharkiv, Ukraine – Cluj-Napoca, Romania, November 12, 2025 / H. S. Skovoroda Kharkiv National Pedagogical University ; editorial board: I. Kostikova (editor-in-chief) [et al.]. Kharkiv : [s. n.], 2025. 298 p.

<https://doi.org/10.5281/zenodo.17350719>

This proceedings volume brings together research papers presented at the IV International Scientific and Practical Conference “European Studies. Learning & Teaching: In the World of Technology,” held on November 12, 2025, in Kharkiv, Ukraine, and Cluj-Napoca, Romania.

Materials are published in the author’s edition.

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УДК 37.011:37.014.5:37.016

<https://doi.org/10.5281/zenodo.17350719>

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Рекомендовано редакційно-видавничою радою Харківського національного педагогічного університету імені Г. С. Сковороди (Протокол № 9 від 19 листопада 2025 року)

European Studies. Learning & Teaching: In the World of Technology :

Conference Proceedings of the IV International Scientific & Practical Conference, Kharkiv, Ukraine – Cluj-Napoca, Romania, November 12, 2025 / H. S. Skovoroda Kharkiv National Pedagogical University ; editorial board: I. Kostikova (editor-in-chief) [et al.]. Kharkiv : [s. n.], 2025. 298 p.

<https://doi.org/10.5281/zenodo.17350719>

Збірник матеріалів об'єднав дослідницькі розвідки, представлені на IV Міжнародній науково-практичній конференції «Європейські студії. Навчання та викладання: у світі технологій», що відбулася 12 листопада 2025 року в Харкові (Україна) та Клуж-Напоці (Румунія).

Матеріали опубліковані в авторській редакції.

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THE USE OF ARTIFICIAL INTELLIGENCE IN THE PROCESS OF TEACHING MATHEMATICS IN PRIMARY SCHOOL

Integration of Artificial Intelligence (AI) into educational activities is an important component of the global process of digitalization of society.

As a powerful tool, AI contributes to the improvement of education quality while simultaneously influencing the enhancement of students' cognitive activity. In particular, within the context of mathematics education, it opens new perspectives for the personalization of learning and the development of logical and analytical thinking.

The main goal of the study is to determine the specific features of using AI in the process of teaching mathematics at the primary school level. In particular, the task is to identify the potential benefits of AI and to assess its impact on the organization and outcomes of learning activities among younger students in mathematics lessons.

Analyzing the scientific works of O. Asmolov, F. Bartlett, A. Verbitsky, V. Davydov, and others, the integration of AI into mathematics education demonstrates a number of key advantages, among which are:

- 1.** Accessible explanation of complex concepts. Thanks to interactive features, visualization, and step-by-step explanations, material becomes more comprehensible even for younger schoolchildren.
- 2.** Automation of routine tasks. AI takes over checking various exercises, generating test materials, and performing other types of repetitive activities. This allows primary school teachers to focus more on creative and methodological aspects of their work.
- 3.** Stimulation of analytical thinking. AI systems can detect mistakes made by primary school students and provide recommendations for overcoming them, thereby fostering critical reflection on mathematical operations.
- 4.** Personalization of the educational process. The use of AI makes it possible to adapt the learning pace to the individual characteristics of younger students, providing support precisely in those areas where difficulties arise.

Thus, the integration of AI into the educational process enables primary school teachers to focus on supporting students and guiding their cognitive activity. AI should be viewed as a promising tool for enhancing the quality of mathematics education at the elementary level. With proper and balanced implementation, AI is capable of combining the advantages of modern digital technologies with traditional approaches to teaching.

In conclusion, the use of AI in the context of mathematics education in primary school opens new horizons for the development of modern pedagogy. Through interactive solutions, personalized learning, and the automation of a range of repetitive tasks, artificial intelligence makes the learning process more accessible and understandable for younger schoolchildren.

Scientific Publication

**European Studies. Learning & Teaching:
In the World of Technology**

CONFERENCE PROCEEDINGS OF
IV INTERNATIONAL SCIENTIFIC & PRACTICAL CONFERENCE
(Kharkiv, Ukraine – Cluj-Napoca, Romania, November 12, 2025)

(in the English Language)

Responsible for the Release: Kostikova I.

Technical Editor: Chetveryk V.

Responsible for layout: Chetveryk V.

*The materials are published as provided by the authors.
The organizing committee may not share the authors' views.
Authors are responsible for the academic integrity, content
and accuracy of their papers.*

Signed for publication 20.11.2025.

Format 60×84/8

Conventionally printed sheet: 18.

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університет імені Г.С. Сковороди
Україна, 61002, м. Харків, вул. Алчевських, 29.

