

**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**

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



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

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(Kharkiv, Ukraine – Cluj-Napoca, Romania)

**November 12, 2025**

**Kharkiv  
2025**

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ**  
**Харківський національний педагогічний**  
**університет імені Г. С. Сковороди (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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### **INTEGRATING DIGITAL TECHNOLOGIES IN PRIMARY EDUCATION: ENHANCING LEARNING AND ENGAGEMENT IN YOUNG LEARNERS**

Modern primary schools are actively integrating digital technologies, which helps increase students' engagement and improve learning outcomes. Interactive whiteboards and tablets enable pupils to interact with educational materials, participate in interactive exercises, and acquire knowledge more effectively. Popular tools for such interactive activities include *Classroomscreen*, *Ziteboard*, *NoteBookCast*, *MIRO*, and *Twiddla*.

Educational programs and applications designed specifically for primary school play a particularly important role. They include interactive games, learning tasks, and video materials that promote the development of key competencies of primary school learners and foster positive motivation for learning. Among such programs are «I Learn – I Don't Wait», Khan Academy Kids, Minecraft Education Edition, and DoodleMaths.

Online learning platforms, such as *Google Classroom*, *MOODLE*, *HUMAN*, and *Unified School*, make it possible to organize distance learning, conduct assessments, share educational materials, and ensure continuity of the educational process. Virtual and augmented reality technologies open opportunities for exciting learning experiments and excursions that are difficult to conduct in a traditional classroom. For example, students can take a virtual museum tour or engage in an interactive space exploration activity.

The integration of coding and robotics into the learning process contributes to the development of logical thinking, creativity, and problem-solving skills. For this purpose, primary schools use software products such as *Kodable*, *Code.org*, *Piktomir*, *Lightbot*, *CodeMonkey*, *Scratch*, *CeeBot*, and *CodeCombat*.

The advantages of implementing digital technologies in primary education lie in increasing students' motivation, personalizing the learning process, and developing digital skills that are essential for successful learning in today's information society. Interactivity, the possibility of an individual approach, and access to diverse learning resources make the educational process more effective and engaging for young learners.

Therefore, the integration of digital technologies into primary school is an effective means of enhancing learners' engagement and improving the efficiency of the educational process. The use of interactive whiteboards, educational applications, online platforms, virtual and augmented reality technologies, as well as elements of coding and robotics, promotes cognitive activity, the formation of digital competencies, and the development of critical thinking. Thus, the systematic implementation of digital resources creates conditions for personalized, interactive, and modern learning that meets the needs of the New Ukrainian School and the demands of the modern information society.

*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.

**Contact Details of the Organizing Committee:**

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

