

INTERNATIONAL R&D ONLINE STUDENT CONFERENCE AND COMPETITION “SCIENCE AND TECHNOLOGY OF THE XXI CENTURY”

On December 4, 2024, the Faculty of Linguistics at the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” hosted the International R&D Online Student Conference and Competition “*Science and Technology of the XXI Century*”.

The event was co-organized by Hellenic Mediterranean University (Greece), the Cyprus University of Technology (Cyprus), Akademia Piotrkowska w Piotrkowie Trybunalskim (Poland), Dnipro University of Technology, National University “Yuri Kondratyuk Poltava Polytechnic” and Taras Shevchenko National University of Kyiv.

The conference welcomed 256 participants, including students from the National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute,” National University “Yuri Kondratyuk Poltava Polytechnic”, V.G. Korolenko Poltava National Pedagogical University, and Yuriy Fedkovych Chernivtsi National University.

Additionally, students from international higher educational institutions such as Akademia Piotrkowska w Piotrkowie Trybunalskim (Poland) and University of Granada (Spain), Universitat Politècnica de València (Spain) took part in the event.

The conference was officially opened by the Dean of the Faculty of Linguistics, Chair of the Organizing Committee, Doctor of Pedagogical Sciences, Professor Zoia Korneva, and the Head of the Department of English for Engineering №2, Co-Chair of the Organizing Committee, Doctor of Pedagogical Sciences, Professor Yuliana Lavrysh.

Innovative ideas were presented by students of the University of Granada (Spain): Dongsheng Yu presented “*Serious Video Games for Teaching English to Piano Teachers and University Students of the Music Teaching Degree*”; Universitat Politècnica de València (Spain): Honglin Yan delivered a presentation entitled “*Teaching Spanish through Video Games: The Case of ‘A Trip to Valencia,’*” and Justyna Swierczek from Piotrków Pedagogical Academy (Poland) shared her work, “*Development of the Third-Grade Pupils' Kinesthetic Intelligence during Physical Education Classes.*”

A total of 30 thematic presentations were delivered during Zoom sessions, addressing a wide range of topics from future trends in science and technology, global challenges and scientific solutions, smart cities and societal impact to resilience and adaptation in the XXI century.

The best presentations were recognized as follows:

I SECTION

1st place *Nazar Boruta, National University “Yuri Kondratyuk Poltava Polytechnic”*
 Ivan Oliinyk, National University “Yuri Kondratyuk Poltava Polytechnic”

2nd place ***Violeta Akhmedova** Faculty of Biomedical Engineering, Igor Sikorsky KPI*
***Bohdana Ruzhytska** Faculty of Biomedical Engineering, Igor Sikorsky KPI*
***Pavlo Pavlenko** Institute of Special Communications and Information Protection,*
Igor Sikorsky KPI

3rd place ***Yuriy Bondarchuk** Institute of Special Communications and Information Protection,*
Igor Sikorsky KPI

II SECTION

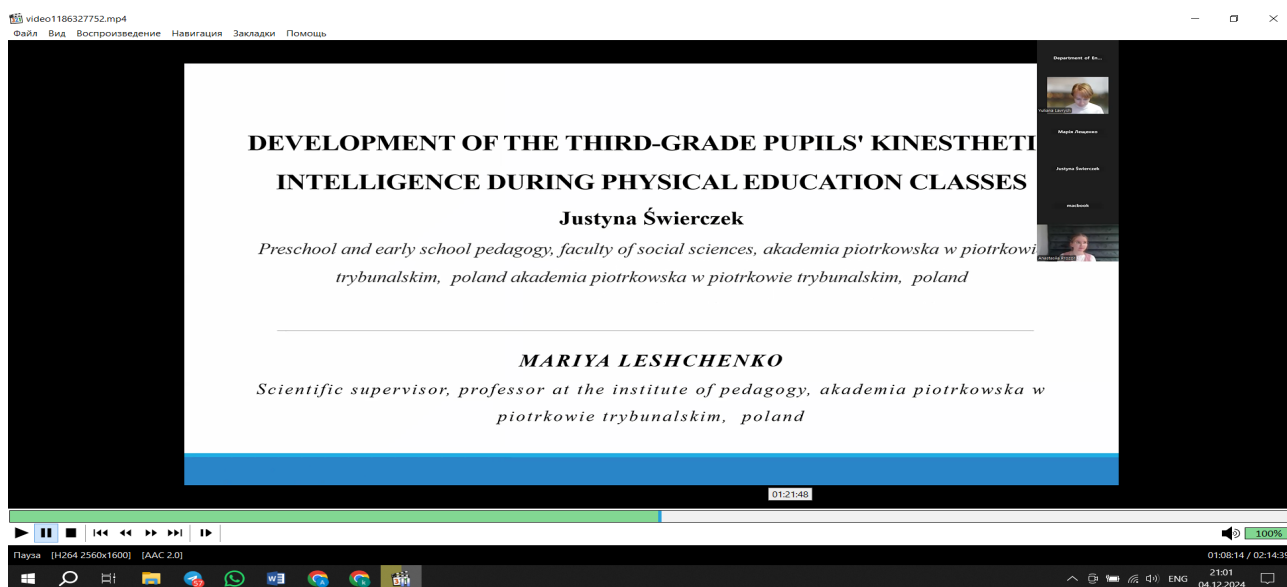
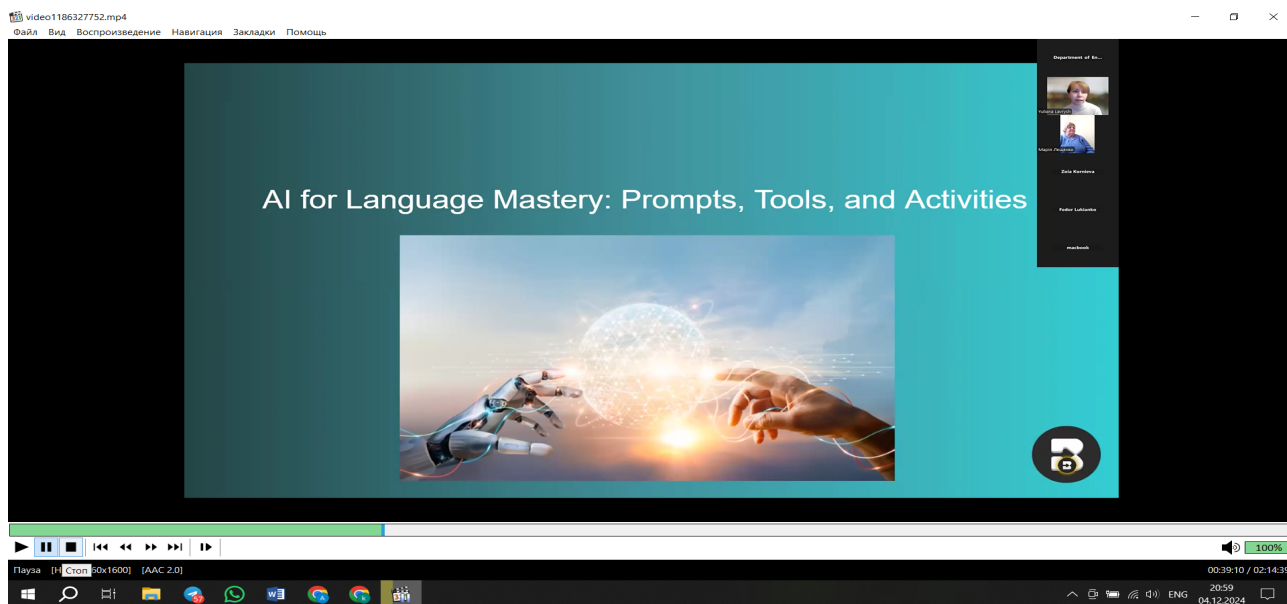
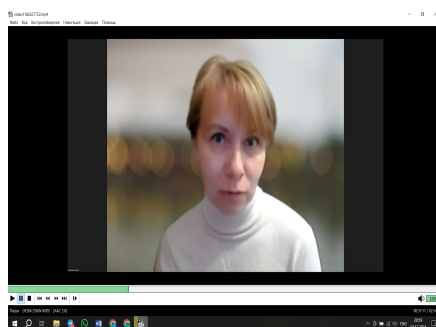
1st place ***Artem Khilchuk** Faculty of Informatics and Computer Engineering, Igor Sikorsky KPI*
2nd place ***Diana Pylova** Faculty of Applied Mathematics, Igor Sikorsky KPI*
3rd place ***Viktoriia Popova** Faculty of Biomedical Engineering, Igor Sikorsky KPI*

III SECTION

1st place ***Daria Moskalenko** National University “Yuri Kondratyuk Poltava Polytechnic”*
***Anastasiia Prozor** Faculty of Biomedical Engineering, Igor Sikorsky KPI*
***Maryna Kaliuzhna** Faculty of Applied Mathematics, Igor Sikorsky KPI*
***Anastasiia Lysenko** Faculty of Informatics and Computer Engineering, Igor Sikorsky*
KPI
***Artem Marchenko** Educational and Research Institute of Physics and Technology,*
Igor Sikorsky KPI
2nd place ***Honglin Yan** Universitat Politècnica de València, Spain*
***Dongsheng You** University of Granada, Spain*
***Justyna Świerczek** Akademia Piotrkowska w Piotrkowie Trybunalskim, Poland*
3rd place ***Diana Samorai** Faculty of Biomedical Engineering, Igor Sikorsky KPI*

The sectional meetings were conducted at a high scientific and theoretical level, fostering dynamic discussions and constructive debates.

The selected theme of the conference served as a productive platform for exchanging ideas and led to conclusions emphasizing the importance of advancing science and technology under wartime conditions as a key factor for national recovery and future progress.



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Файл Вид Воспроизведение Навигация Закладки Помощь

Teaching Spanish through Video Games:
The Case of "A Trip to Valencia"

Presented by: Honglin
Supervised by: Ricardo Casañ Pitarch
Doctorate in Languages, Literatures, and Cultures, and their Appl
04/12

100%

01:15:42 / 02:14:39

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04.12.2024

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Файл Вид Воспроизведение Навигация Закладки Помощь

Serious video games for teaching English to piano teachers and university students of the Music Teaching Degree

Dongsheng You

Directed by Dr. Christina Holgado-Sáez & Dr. Ricardo Casañ Pitarch

100%

01:27:13 / 02:14:39

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04.12.2024

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Файл Вид Воспроизведение Навигация Закладки Помощь

THE ROLE OF ARTIFICIAL INTELLIGENCE IN DRUG DEVELOPMENT

Cost: ~ 20 billion USD
Effectiveness: ~ 10-20%

Figure 1. Typical drug discovery timeline

Drug discovery	Pre clinical	Clinical trials	Regulatory approval
10,000-15,000 compounds	250 compounds	5 compounds	1 new drug
Target identification and validation, assay development, lead prioritization	Toxicity and in vitro toxicity, ADME/Tox	Phase I, Phase II, Phase III	Regulatory approval
6-8 years	1-2 years	6-8 years	1-2 years

Figure 2. Techniques for drug testing

In vitro
Translates directly to "in glass" meaning the study takes place in a test tube, rather than in a model organism.

In vivo
Translates directly to "in life", meaning the study takes place in a living cell or model organism.

In silico
An in silico experiment is one done in a virtual setting, such as a computer or virtual simulation.

(Narain, A. The In vitro, vivo, silico and Outs of Research - InVivo Biosystems. InVivo Biosystems. <https://doi.org/10.3390/ibiosystems1002028>)

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