

**ХАЛЫҚАРАЛЫҚ
БІЛІМ БЕРУ
КОРПОРАЦИЯСЫ**

050043, Алматы қаласы, Рысқұлбеков көшесі, 28
Тел.: 8 800 070 10 56, 8 (727) 355 10 56
Website: iec.edu.kz E-mail: info@mok.kz



**МЕЖДУНАРОДНАЯ
ОБРАЗОВАТЕЛЬНАЯ
КОРПОРАЦИЯ**

050043, город Алматы, ул. Рысқұлбекова, 28
Тел.: 8 800 070 10 56, 8 (727) 355 10 56
Website: [Website: iec.edu.kz](http://iec.edu.kz) E-mail: info@mok.kz

INTERNATIONAL EDUCATIONAL CORPORATION

Almaty 050043, Republic of Kazakhstan, Ryskulbekov street, 28, Tel 8 800 070 10 56, 8 (727) 355 10 56, Website iec.edu.kz, E-mail info@mok.kz

17.02.26 № 03/224
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(кіріс құжатының күні мен нөміріне сілтеме)

Dear Colleagues,

The International Educational Corporation (KazGASA), jointly with the International Transnational Education Association (ITEA, Malaysia), invites scientists, lecturers, researchers, doctoral candidates, master's students, and representatives of specialized organizations to participate in the International Scientific-Practical Conference: **“Digital Architecture, Construction, and Artificial Intelligence for the Creative Economy.”** The conference will take place on **April 13 -14, 2026**, in Almaty, at the Kazakh Leading Academy of Architecture and Civil Engineering (28 Ryskulbekov Str., Main Academic Building).

The objective of the conference is to discuss current scientific and practical issues regarding the digital transformation of architecture, construction, and creative industries, and the implementation of artificial intelligence technologies. Furthermore, it aims to foster scientific, educational, and innovative cooperation among universities, research institutes, and industrial partners.

We invite representatives of higher education institutions, research organizations, design institutes, government bodies, industry companies, and the expert community to participate.

An information letter detailing the terms of participation is attached.

Vice-Rector for Science and Innovations

Zh. Moldamuratov

✉ Sh. Laiskhanov
☎ +7 775 733 1433

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INFORMATION LETTER

DEAR COLLEAGUES!

The International Educational Corporation (KazGASA), in cooperation with the International Transnational Education Association (ITEA, Malaysia), invites scholars, faculty members, doctoral candidates, master's students, representatives of design and construction organizations, IT companies, governmental bodies, and creative industries to participate in the International Scientific and Practical Conference “**Digital Architecture, Construction and Artificial Intelligence for the Creative Economy**”, which will be held on **April 13-14, 2026**, in Almaty, Republic of Kazakhstan.

The conference is organized within the framework of advancing scientific, educational, and innovative cooperation in the fields of architecture, construction, digital technologies, and artificial intelligence, as well as fostering a modern ecosystem for the creative economy.

The event aims to discuss advanced scientific research, exchange experience in implementing digital solutions, develop interdisciplinary approaches, and strengthen interaction between the academic community, industry, and government structures.

The goal of the conference is to establish a professional platform for discussing current scientific and applied challenges related to the digital transformation of the architecture and construction sector, the implementation of artificial intelligence technologies, digital modeling, and innovative solutions within the creative economy.

Main Objectives of the Conference:

- Discussion of modern trends in the digitalization of architecture, construction, and the urban environment;
- Presentation of scientific research and innovative developments in the field of AI and digital technologies;
- Exchange of experience in implementing BIM technologies, digital twins, and smart facility management systems;
- Development of cooperation between universities, research centers, and industrial partners;
- Discussion of personnel training issues for creative industries;
- Formation of new scientific collaborations and joint projects.

Conference thematic areas:

Architecture

- Digital architecture and AI in architectural design;
- Parametric and generative design;
- BIM technologies and information modeling of architectural objects;
- Digital twins of buildings and urban territories;
- Smart Cities and digital urbanism;
- Urban planning modeling and spatial analysis;
- Architectural visualization, VR/AR technologies;
- Sustainable development of architecture and ecological design;
- Reconstruction and digital preservation of architectural heritage;
- Innovative materials and technologies in architecture;
- Energy-efficient and "green" architectural solutions;



- Digital technologies for building life cycle management;
- Integration of AI into architectural education;
- Architecture of public spaces and the creative environment;
- Interdisciplinary research in architecture.

Construction

- AI in construction and project management;
- BIM technologies and digital transformation of the construction industry;
- Digital twins of buildings, structures, and infrastructure;
- Robotization and automation of construction processes;
- Additive technologies and 3D printing in construction;
- Innovative construction materials and technologies;
- Sustainable construction and energy-efficient technologies;
- Digital monitoring of the technical condition of buildings and structures;
- Building engineering systems and intelligent management systems;
- Seismic resistant construction and digital methods of structural analysis;
- Geotechnical modeling and digital methods of engineering surveys;
- Life cycle management of construction objects;
- Infrastructure projects and digital technologies;
- Construction economics and digital management of investment projects;
- Construction safety and digital quality control technologies;
- Personnel training for the digital construction industry.

Design

- Digital design and AI in creative industries;
- Industrial design and digital manufacturing;
- Graphic design, multimedia, and digital communications;
- Design of the urban environment and public spaces;
- Interior design and digital design technologies;
- UX/UI design and digital user interfaces;
- Animation, game technologies, and virtual reality;
- Creative economy and digital cultural industries;
- Design thinking and innovative design methods;
- Digital art and new media;
- Education in the field of design and digital competencies;
- Integration of AI technologies into design processes;
- Ecological and sustainable design;
- Interdisciplinary projects at the intersection of design, architecture, and technology.

Participation formats

- In-person participation with a report;
- Online participation (remote report);
- Publication of a scientific article without in-person participation;
- Participation as a listener;
- Participation in panel discussions and round tables.

Working languages of the conference: Kazakh, Russian, English.

Publication of conference materials



Upon completion of the conference, an electronic collection of materials will be published with the assignment of an International Standard Book Number (ISBN) and placement in scientific electronic databases.

Best reports, based on the decision of the program committee, will be recommended for publication in the scientific journal "**Bulletin of KazGASA**" (included in the list of publications recommended by the Committee for Quality Assurance in the Sphere of Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan for the publication of major scientific results), and will also be awarded **diplomas and commemorative gifts**.

The organizational fee for publishing an article is 5,000 (five thousand) tenge. *For foreign participants, the organizational fee is WAIVED (free of charge).*

Important dates

- Registration of participants and submission of articles: **until April 5, 2026;**
- Distribution of the conference program: **until April 10, 2026;**
- Conference dates: **April 13-14, 2026;**
- Publication of the conference proceedings: **until May 1, 2026.**

Materials are accepted via email: science.office@kazgasa.kz. **Materials received after the deadline will not be considered.**

Conference venue

Kazakh Leading Academy of Architecture and Civil Engineering (KazGASA), Almaty, Republic of Kazakhstan.

Organizing committee contact information

Address: 28 Ryskulbekov St., Almaty, Republic of Kazakhstan

Phone: +7 775 733 1433

Contact Person: Laiskhanov Shakhislam, Director of the Department of Science and Innovations, International Educational Corporation.

E-mail: science.office@kazgasa.kz

Website: <https://iec.edu.kz/en/glavnaya-en/>

The Organizing Committee would be grateful for the dissemination of information about the conference among interested specialists, researchers, lecturers, and students.

We look forward to your participation and hope for fruitful scientific cooperation!



REQUIREMENTS FOR MATERIAL FORMATTING

Original scientific articles corresponding to the conference themes, which have not been previously published or submitted to other publications, are accepted for publication.

1. General Requirements

- Article volume: **from 4 to 8 pages.**
- File format: **Microsoft Word (.doc, .docx).**
- Paper size: **A4.**
- Margins: **2 cm on all sides**
- Font: **Times New Roman, size 12 pt.**
- Line spacing: **1.0 (single).**
- Text alignment: **Justified (width).**
- Paragraph indentation: **1.0 cm.**
- Page numbering: **Do not number pages.**
- Figures and tables must be inserted into the text and have captions and references within the text.

The article must be carefully edited. The authors bear responsibility for the content of the materials.

2. Article Structure

Materials must be formatted in the following sequence:

UDC (in the upper left corner).

Article Title - CAPITAL LETTERS, bold font, centered.

Surname and Initials of the Author(s) - bold font, centered.

Organization, City, Country, Author's E-mail - italics, centered.

Abstract in Kazakh, Russian, and English (150-250 words).

Keywords (5-7 words).

Main text of the article, including:

- Introduction (relevance, research goal);
- Materials and Methods;
- Results and Discussion;
- Conclusion (findings);
- Acknowledgments (if available);
- References (List of Literature).

3. Requirements for Figures and Tables

- Figures must be clear, high-contrast, executed in black-and-white or color.
- Captions for figures - below the figure, centered (e.g., Figure 1 - Title).
- Tables - with a title above the table (e.g., Table 1 - Title).
- There must be references to all figures and tables in the text.
- Formulas must be typed in the Microsoft Equation or MathType formula editor.

4. Formatting the References

The list of literature is formatted at the end of the article in the order of citation in the text.

References in the text are indicated in square brackets: [1], [2].

Formatting examples:



1. Liu P., Cui S., Li Z., Xu X., Guo C. Influence of surrounding rock temperature on mechanical property and pore structure of concrete for shotcrete use in a hot-dry environment of high-temperature geothermal tunnel. *Construction and Building Materials*. 2019. 207: 329-337. <https://doi.org/10.1016/j.conbuildmat.2019.02.125>

If a DOI is available, it must be indicated.

5. Requirements for Material Originality

Submitted materials must be original and comply with academic integrity requirements. The level of uniqueness/originality of the article must be not less than 70% (based on anti-plagiarism system checks).

Materials with a lower level of originality, or containing incorrect borrowings without appropriate source citations, are not accepted for publication. Authors bear responsibility for the reliability of the provided data and compliance with copyright norms.

6. Publication Languages

Materials are accepted in Kazakh, Russian, or English.

7. Submission Procedure

To participate, it is necessary to send the following to the Organizing Committee's email science.office@kazgasa.kz

1. The article, formatted according to requirements;
2. Participant Application Form (as a separate file);
3. Scan of the receipt for payment of the organizational fee (foreign participants are exempt).

Files must be named by the surname of the first author:

Akhmetov_article.docx

Akhmetov_application.docx

8. Organizational Fee

The organizational fee includes publication of the article in the conference proceedings, provision of a participant certificate (if presenting a report), access to conference materials, participation in plenary and panel sessions, and opportunities for professional networking with leading scientists and industry experts.

9. Organizing Committee Contact Information

E-mail: science.office@kazgasa.kz

Phone: +7 775 733 1433, Laiskhanov Shakhislam (Director of the Department of Science and Innovations, International Educational Corporation)

Address: KazGASA, 28 Ryskulbekov St., Almaty, Kazakhstan.

The Organizing Committee reserves the right to reject materials that do not correspond to the conference theme or formatting requirements!



EXAMPLE OF ARTICLE FORMATTING

UDC 004.94:72

APPLICATION OF ARTIFICIAL INTELLIGENCE IN THE ARCHITECTURAL DESIGN OF PUBLIC BUILDINGS

Akhmetov I.I.¹, Aliev P.P.²

¹*Kazakh Leading Academy of Architecture and Civil Engineering, Almaty, Kazakhstan*

²*International Educational Corporation, Almaty, Kazakhstan*

e-mail: akhmetov@kazgasa.kz

Abstract. The article examines modern approaches to the application of artificial intelligence technologies in the architectural design of public buildings. Attention is paid to the use of generative algorithms, parametric modeling, and Building Information Modeling (BIM) technologies. The results of analyzing the effectiveness of digital tools at various stages of the design process are presented. It is shown that the integration of artificial intelligence makes it possible to improve the quality of architectural solutions, reduce design time, and optimize resources. The obtained results can be applied in the development of innovative architectural projects and educational programs in the field of digital architecture.

Keywords: artificial intelligence, digital architecture, BIM technologies, parametric modeling, architectural design, digital technologies.

Introduction

In the context of the digital transformation of the construction industry, the application of artificial intelligence technologies has become one of the key factors in enhancing the efficiency of architectural design. Modern digital tools make it possible to automate the development of design solutions, perform multi-variant analysis, and optimize building parameters [1]. The aim of this study is to analyze the possibilities of applying artificial intelligence in the architectural design of public buildings and to assess the effectiveness of digital technologies.

Materials and Methods

The study employed methods of parametric modeling, algorithmic design, and comparative analysis of digital tools. Autodesk Revit, Rhino Grasshopper, and machine learning systems were used for modeling.

Results and Discussion

The results of the study demonstrate that the use of artificial intelligence makes it possible to:

- reduce the time required for developing design solutions by up to 30%;
- improve the accuracy of calculations and visualization;
- optimize architectural and planning solutions;
- increase the energy efficiency of buildings.

Figure 1 presents an example of a digital building model created using parametric design.

Figure 1 - Digital model of a public building

The use of digital twins enables life-cycle analysis of a facility and allows forecasting of its operational performance.



Conclusion

The application of artificial intelligence technologies in architectural design represents a promising direction for the development of the architecture and construction sector. The obtained results confirm the effectiveness of integrating digital technologies into design processes and building life-cycle management. Further research may focus on the development of intelligent decision-support systems for architectural design.

Acknowledgements

This research was supported by a scientific project (if applicable, please indicate).

References

1. Liu P., Cui S., Li Z., Xu X., Guo C. Influence of surrounding rock temperature on mechanical property and pore structure of concrete for shotcrete use in a hot-dry environment of high-temperature geothermal tunnel. *Construction and Building Materials*. 2019. 207: 329-337. <https://doi.org/10.1016/j.conbuildmat.2019.02.125>

PARTICIPANT APPLICATION FORM

International Scientific and Practical Conference

" Digital Architecture, Construction and Artificial Intelligence for the Creative Economy"

April 13-14, 2026, Almaty, Republic of Kazakhstan

- 1) Full Name _____
- 2) Academic Degree, Academic Title _____
- 3) Position _____
- 4) Organization (Full Name) _____
- 5) Country, City _____
- 6) Contact phone _____
- 7) E-mail _____
- 8) Title of Report _____
- 9) Thematic Section (please mark) _____
 - Architecture
 - Construction
 - Design
- 10) Form of Participation:
 - In-person participation with a report
 - Online participation (remote report)
 - Publication of article without participation
 - Participation as a listener

Date: " _____ " _____ 2026

Signature: _____