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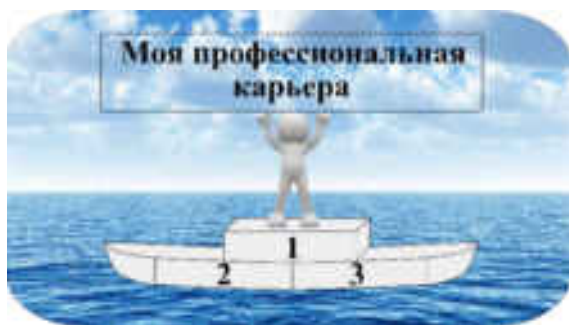


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**Международный научно-образовательный электронный журнал
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Z.S. Ganieva, I.U. Atamuradov NATURAL CAPITAL IN THE SYSTEM OF SUSTAINABLE DEVELOPMENT: STRUCTURAL-FUNCTIONAL ANALYSIS AND ECONOMIC ASSESSMENT	244
Z.S.Ganiyeva DEMOGRAFIK O'SISH JARAYONLARINI BAHOLASHDA STATISTIK TAHLILNING STRATEGIK O'RNI	250
Z.S.Ganiyeva IQTISODIYOTDA XIZMATLAR HAJMI DINAMIKASINING EKONOMETRIK VA STATISTIK TAHLILI	257
Hayytbayev Ylyas, Myradova Akmaral DESIGN AND ANIMATION OF THE "OGUZHAN" MODERN PARK	260
Amanguly Amangulyyev, Nurmyradova Ogulhally EXTERIOR DESIGN AND ANIMATION OF THE MUSEUM OF CRAFT AND APPLIED ARTS OF TURKMENISTAN	264
Бегджанова Айгозел Бегджановна ДОГОВОР КАК ИСТОЧНИК ГРАЖДАНСКО-ПРАВОВЫХ ОТНОШЕНИЙ	268
Pena Charyyev, Jahan Babayeva EXTERIOR AND INTERIOR VISUAL DESIGN AND ANIMATION OF THE "KOYTENDAG" HOTEL IN KÖYTENDAG DISTRICT, LEBAP PROVINCE	272
Annanurova Aygul Rahmanovna, Kerimova Enemjan THE ROLE OF MODERN METHODS IN TEACHING THE LANGUAGE	276
Pena Charyyev, Saparmyrat Yegenbayev BIOGUMUS COMPANY OF EXTERIOR DESIGN AND ANIMATION	280
Ekayev Mukam, Abdyev Abdylseyit TECHNOLOGY FOR OBTAINING COPPER COATINGS VIA THE GALVANIC PROCESS	283
Atayeva Shemshat Shohratovna, Jumayeva Bagul Nurmyradovna ACTIVITIES BASED ON INPUTTING VOCABULARY IN EFL CLASSROOMS	288
Akgayyev Medet, Nowruzov Gurbanmammet, Gurbanmammedov Charyyar THE IMPACT OF STANDARDIZATION IN SMART GRIDS AND RENEWABLE ENERGY	293

Teacher: Pena Charyyev

Student: Saparmyrat Yegenbayev

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Abstract

This article examines the role of Biogumus as an innovative company operating at the intersection of exterior design and animation. It explores how the integration of landscape architecture, digital visualization, and animation technologies contributes to enhanced environmental planning, client communication, and sustainable design practices. Drawing on perspectives from Landscape Architecture, Digital Design, and Computer Animation, the study analyzes the methodological approaches and technological tools employed by the company. The paper argues that the fusion of design and animation represents a significant advancement in the visualization and implementation of exterior environments.

Introduction

In the context of rapid urbanization and technological advancement, exterior design has evolved beyond traditional landscaping into a multidisciplinary field incorporating digital tools and visual media. Companies such as Biogumus exemplify this transformation by combining exterior design with advanced animation techniques to produce immersive and communicative representations of environmental projects.

This paper aims to provide a comprehensive analysis of Biogumus, focusing on its contributions to the development of visually driven design solutions. It situates the company within broader trends in environmental visualization and examines how animation enhances both the design process and stakeholder engagement.

Theoretical Framework

The integration of design and animation can be understood through the lens of Landscape Architecture, which emphasizes the planning and design of outdoor spaces to achieve aesthetic, functional, and ecological objectives. Contemporary approaches increasingly rely on digital tools to simulate and evaluate design outcomes.

In parallel, Digital Design provides the technological foundation for creating detailed visual models and interactive environments. This field encompasses 3D modeling, rendering, and simulation, which are essential for modern exterior design workflows.

The contribution of Computer Animation lies in its ability to transform static designs into dynamic visual narratives. Animation enables designers to demonstrate temporal changes, user interaction, and environmental impact, thereby enhancing the communicative power of design presentations.

Company Overview and Methodological Approach

Biogumus operates as a multidisciplinary design firm specializing in exterior environments, including gardens, urban spaces, and recreational areas. Its distinctive approach lies in the integration of ecological design principles with advanced visualization techniques.

The company employs a workflow that typically includes site analysis, conceptual design, digital modeling, and animated visualization. By incorporating animation into the design process, Biogumus is able to present projects in a more engaging and comprehensible manner, facilitating decision-making among clients and stakeholders.

Role of Animation in Exterior Design

Animation plays a crucial role in bridging the gap between conceptual ideas and tangible outcomes. Through animated simulations, designers can illustrate seasonal changes, lighting conditions, and human interaction within a space. This dynamic representation enhances the accuracy and clarity of design proposals.

Moreover, animation supports participatory design processes by enabling stakeholders to visualize and evaluate different scenarios. This aligns with contemporary trends in user-centered design and collaborative planning.

Discussion

The integration of animation into exterior design offers several advantages, including improved communication, increased client engagement, and enhanced predictive capabilities. However, it also presents challenges, such as the need for specialized technical skills and increased production costs.

Biogumus represents a case study in how these challenges can be addressed through interdisciplinary collaboration and technological innovation. Its work demonstrates the potential of combining ecological awareness with digital visualization to create sustainable and visually compelling environments.

Conclusion

Biogumus exemplifies the evolving nature of exterior design in the digital age. By integrating animation into its design processes, the company enhances both the aesthetic and functional aspects of environmental planning. This approach not only improves communication and decision-making but also contributes to the development of more sustainable and user-centered outdoor spaces.

Future research should explore the long-term impact of animated visualization on design outcomes and stakeholder satisfaction, as well as the potential integration of emerging technologies such as virtual reality and artificial intelligence.

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