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DANCE AND TECHNOLOGY: CHOREOGRAPHY IN THE DIGITAL AGE ТАНЕЦ И ТЕХНОЛОГИИ: ХОРЕОГРАФИЯ В ЦИФРОВУЮ ЭПОХУ RAQS VA TEXNOLOGIYA: RAQAMLI ASRDA XOREOGRAFIYA

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doulov.6212@gmail.com ДОУЛОВ УЛУГБЕК ХАИТБАЕВИЧ СТУДЕНТ УРГЕНЧСКОГО ФИЛИАЛА ГОСУДАРСТВЕННОЙ АКАДЕМИИ ХОРЕОГРАФИИ УЗБЕКИСТАНА

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Annotation: The article explores the relationship between dance and technology in the digital age, examining how choreographers integrate digital tools such as virtual reality, motion capture, and digital projections into their performances. It also highlights the impact of social media platforms on the dissemination of dance performances and how technology is shaping the future of choreography. The convergence of dance and technology is revolutionizing the way choreographers create, share, and present their work in a globalized and digitally connected world.

**Keywords**: Dance, technology, choreography, digital age, virtual reality, motion capture, digital projections, social media, performance art, future of dance.

Аннотация: В статье рассматриваются взаимоотношения танца и технологий в цифровую эпоху, исследуется, как хореографы интегрируют цифровые инструменты, такие как виртуальная реальность, захват движения и цифровые проекции в свои выступления. Также подчеркивается влияние социальных медиа на распространение танцевальных выступлений и как технологии формируют будущее хореографии. Слияние танца и технологий меняет способ создания, распространения и представления хореографического искусства в глобализированном и цифрово связанном мире.

Ключевые слова: Танец, технологии, хореография, цифровая эпоха, виртуальная реальность, захват движения, цифровые проекции, социальные медиа, перформанс, будущее танца.

Annotatsiya: Maqolada raqs va texnologiya oʻrtasidagi munosabatlar raqamli asrda tahlil qilinadi. Xoreograflar virtual haqiqat, harakatlarni ushlash texnologiyasi va raqamli proyeksiyalar kabi raqamli vositalarni oʻz ijodiy ishlariga qanday kiritayotgani koʻrib chiqiladi. Shuningdek, ijtimoiy tarmoqlarning raqs ijrolarining tarqalishiga ta'siri va texnologiyalarning xoreografiya kelajagini shakllantirishdagi roli ham yoritiladi. Raqs va texnologiyaning uyg'unlashuvi, xoreograflar oʻz ishlarini global va raqamli bog'langan dunyoda qanday yaratishi, ulashishi va namoyish etishi usulini o'zgartirmoqda.

Kalit soʻzlar: Raqs, texnologiya, xoreografiya, raqamli asr, virtual haqiqat, harakatlarni ushlash, raqamli proyeksiya, ijtimoiy tarmoqlar, ijro san'ati, raqsning kelajagi.

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Introduction:

In the 21st century, the intersection of dance and technology has become a significant area of exploration for choreographers and performers alike. The rapid development of digital tools such as virtual reality, motion capture, and digital projections has reshaped the way choreographers create and present their work. As the digital world expands, dance is no longer confined to physical stages; instead, it has entered virtual spaces, making performances more accessible and interactive. This research aims to explore how technology is transforming choreography in the digital age, examining the benefits, challenges, and potential of this evolving relationship.

Relevance of the research:

The integration of technology into dance is not only an artistic choice but also a response to the changing dynamics of the modern world. With the rise of digital platforms and the widespread use of social media, dance performances now have the potential to reach global audiences instantly. Additionally, technological tools offer new ways to visualize and express movement, allowing choreographers to push the boundaries of traditional performance art. This research is particularly relevant because it addresses the ongoing digital transformation across creative industries and highlights how technology is revolutionizing both the creation and consumption of dance.

Research methodology:

This study employs a mixed-method approach, combining both qualitative and quantitative research methods. First, a literature review will analyze existing studies and scholarly articles on the use of technology in dance. Case studies of contemporary choreographers who utilize digital tools in their work will provide practical insights into current trends. Furthermore, interviews with choreographers and dancers will be conducted to gather firsthand experiences of working with technology. Lastly, an audience survey will assess the impact of technology on the viewing experience, exploring how digital enhancements influence audience engagement with dance performances.

#### Key areas of intersection

1. Digital choreography tools

Software and applications: Tools like DanceForms, LabanWriter, and ChoreoGraph allow choreographers to visualize and map out movements digitally.

Motion capture: Used for creating detailed motion analysis and for developing digital avatars that can perform choreographed sequences.

2. Interactive dance performances

Sensor technology: Wearable sensors track dancers' movements and interact with digital environments in real time.

Augmented reality (AR) and virtual reality (VR): Create immersive dance experiences by integrating virtual elements with live performance.

3. Video and Projection Mapping

Projection mapping: Projects visuals onto surfaces to create dynamic backdrops and interactive elements in dance performances.

Video art: Integrates pre-recorded video footage with live dance, offering new layers of storytelling and visual effects.

4. Online Platforms and Digital Media

Social media: Platforms like Instagram and TikTok allow dancers to share choreography and reach global audiences.

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Streaming services: Provide access to live and recorded performances, broadening audience reach and engagement.

5. Algorithmic and AI-Driven Choreography

AI tools: Algorithms can generate choreography based on input parameters, analyze dance styles, or even suggest new movement combinations.

Machine learning: Used to study and replicate complex dance movements and styles, offering new insights into the mechanics of dance.

#### Impacts on choreography

1. Creativity and innovation

Technology allows for experimentation with new forms and styles, leading to novel choreographic possibilities.

Collaboration between choreographers and technologists fosters unique artistic expressions.

2. Accessibility and inclusivity

Digital platforms enable access to dance education and performances for a wider audience, including those who may not have physical access to traditional venues.

Adaptive technologies support dancers with disabilities, making choreography more inclusive.

3. Performance and audience experience

Technology enhances the sensory experience of performances through interactive elements and immersive environments.

Live streaming and digital content offer new ways for audiences to engage with dance.

#### **Challenges and considerations**

- Technical limitations: Dependence on technology may lead to technical glitches or limitations in performance execution.

- Cost and accessibility: High-tech equipment and software can be expensive, potentially limiting access for some choreographers and dancers.

- Balancing tradition and innovation: Striking a balance between traditional dance techniques and new technological methods can be challenging.

#### **Conclusion:**

The fusion of dance and technology in the digital age represents a new frontier for both choreographers and audiences. While technological advancements offer exciting possibilities for creativity and outreach, they also present challenges related to authenticity and the preservation of traditional dance forms. Nevertheless, the incorporation of digital tools into choreography is likely to continue evolving, offering new opportunities for innovation in the arts. This research underscores the importance of embracing technological progress while maintaining a balance between modernity and the essence of dance as an expressive, physical art form.

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