JOURNAL OF HIGHER EDUCATION AND RESEARCH SOCIETY

AN INTERNATIONAL REFEREED & PEER-REVIEWED E-JOURNAL

ISSN: 2349-0209

Volume-13, Issue-1, April - 2025



THE ROLE OF ARTIFICIAL INTELLIGENCE IN CINEMA, THEATRE, AND PERFORMING ARTS

S. Rajasekar Assistant Professor Department of English NPR College of Engineering and Technology Natham, Dindigul. Email: rajasekars@nprcolleges.org

Abstract

This paper explores the transformative role of Artificial Intelligence (AI) across cinema, theatre, and the performing arts. By examining real-world examples and industry practices, it highlights how AI is reshaping scriptwriting, post-production, casting, stage design, music composition, choreography, and audience interaction. From AI-generated screenplays and deepfake actors to machine-driven choreography and interactive theatrical experiences, AI is emerging not only as a tool but also as a creative collaborator. The paper also addresses the ethical and philosophical implications of AI-driven creativity, including issues of authorship, authenticity, labor, and digital rights. Ultimately, this study argues that while AI challenges traditional definitions of creativity, it also opens new pathways for artistic innovation and human-machine collaboration in the 21st-century cultural landscape

Keywords: Artificial Intelligence, Creative Industries, Cinema, Theatre, Performing Arts, Scriptwriting, Digital Performance, Music Composition, Choreography, Ethical Implications, AI Co-Creation, Digital Representation, Authors' Rights, Human-AI Collaboration

JOURNAL OF HIGHER EDUCATION AND RESEARCH SOCIETY

AN INTERNATIONAL REFEREED & PEER-REVIEWED E-JOURNAL

ISSN: 2349-0209

Volume-13, Issue-1, April - 2025



THE ROLE OF ARTIFICIAL INTELLIGENCE IN CINEMA, THEATRE, AND PERFORMING ARTS

S. Rajasekar

Introduction

Artificial Intelligence (AI) is increasingly reshaping creative industries. From automating aspects of filmmaking to enhancing live performances, AI is now a collaborator, tool, and even a performer in its own right. This report explores AI's impact across cinema, theatre, and the performing arts, analyzing current applications, real-world examples, and the broader implications for creativity, labor, and ethics.

1. Scope and Methodology

This research draws from a range of sources including academic journals, industry reports, artist interviews, and case studies. The focus is primarily on developments from the past decade in Western creative industries. Key examples were selected based on their innovation, cultural impact, and relevance to ongoing debates about AI in the arts.

2. AI in Cinema

2.1 Scriptwriting and Development AI tools are now assisting with the development of screenplays by suggesting plot points, generating dialogue, and analyzing script quality. A notable example is Sunspring (2016), a sci-fi short film written entirely by an AI named Benjamin. Tools like ChatGPT, Sudowrite, and ScriptBook are commonly used in this area.

2.2 Virtual Casting and Digital Actors AI technologies such as deepfakes and digital avatars are enabling the recreation of actors. Examples include Peter Cushing's digital resurrection in Rogue One and Robert De Niro's de-aged performance in The Irishman. These developments raise ethical questions about consent and likeness rights.

JOURNAL OF HIGHER EDUCATION AND RESEARCH SOCIETY AN INTERNATIONAL REFEREED & PEER-REVIEWED E-JOURNAL ISSN: 2349-0209

Volume-13, Issue-1, April - 2025



2.3 Post-Production and Editing AI-driven tools like Adobe Sensei and RunwayML automate many post-production tasks such as video editing, color correction, and trailer creation. Warner Bros., for instance, used AI to generate a trailer for the movie Morgan (2016).

2.4 Predictive Analytics Studios use AI to analyze viewer data and predict content success. Netflix, for example, utilizes AI algorithms to inform content development and marketing strategies.

3. AI in Theatre

3.1 AI-Generated Plays AI is also contributing to live theatre. The Czech play AI: When a Robot Writes a Play (2021) was created using a GPT-like AI system. The result was a unique collaboration between machine-generated content and human performance.

3.2 Interactive Theatre In experimental settings, AI is being used to create interactive performances where audiences influence the narrative in real time. Companies like Blast Theory and Punch-drunk are leading in this area.

3.3 Design Automation AI aids in lighting, sound, and set design, often based on script analysis. This allows for dynamic and cost-efficient production planning.

4. AI in Performing Arts

4.1 AI Music Composition AI-generated music is becoming common in both composition and performance. Tools like AIVA, Amper, and OpenAI's Jukebox are being used to create scores. Artist Holly Herndon uses an AI model named Spawn in her vocal compositions.

4.2 Choreography and Movement Choreographers like Wayne McGregor use AI to analyze and generate dance movements, blending human and machine creativity.

JOURNAL OF HIGHER EDUCATION AND RESEARCH SOCIETY AN INTERNATIONAL REFEREED & PEER-REVIEWED E-JOURNAL ISSN: 2349-0209

Volume-13, Issue-1, April - 2025



4.3 Virtual and Holographic Performances AI-powered holograms and virtual performers are appearing in live events. A notable example is the Whitney Houston hologram tour.

5. Key Themes and Ethical Considerations

Theme	Description
Creativity	Debates around AI's ability to produce truly original art.
Labor & Employment	Potential impact on jobs in creative industries.
Human-AI Collaboration	Artists increasingly view AI as a co-creator.
Digital Ethics	Questions of consent, likeness, and digital resurrection.
Ownership & Copyright	Ambiguity around who owns AI-generated content.

6. Conclusion

AI is not replacing creativity—it is redefining it. The relationship between humans and machines in creative fields continues to evolve, challenging traditional notions of authorship, authenticity, and performance. As AI tools become more sophisticated, collaboration between artists and algorithms may become a new norm in 21st-century storytelling.

7. References & Resources

Books

- Miller, Arthur I. The Artist in the Machine. MIT Press.
- Shane, Janelle. You Look Like a Thing and I Love You. Voracious.

JOURNAL OF HIGHER EDUCATION AND RESEARCH SOCIETY AN INTERNATIONAL REFEREED & PEER-REVIEWED E-JOURNAL ISSN: 2349-0209

Volume-13, Issue-1, April - 2025

ADVANCED SCIENCES INDEX

- Academic Articles
- "AI and the Future of Storytelling" Journal of Creative Technologies
- "Theatre, AI, and Interactivity" MIT Media Lab
- Tools and Platforms
- RunwayML
- AIVA
- ScriptBook

