Editorial
ISSN (Online): 2582-7472

ShodhKosh: Journal of Visual and Performing Arts
Special Issue on Digital Preservation and Intelligent
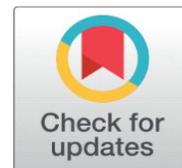Innovation in Traditional and Modern Arts 7(1s)

SPECIAL ISSUE ON DIGITAL PRESERVATION AND INTELLIGENT INNOVATION IN TRADITIONAL AND MODERN ARTS

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Dear Readers and Contributors,

In an era defined by rapid technological advancement, the intersection of digital preservation and intelligent innovation has emerged as a critical domain within traditional and modern arts. Artificial Intelligence (AI), machine learning, data analytics, and intelligent digital platforms are reshaping how artistic knowledge is preserved, transmitted, interpreted, and reinvented. This special issue of the **Shodhkosh Journal of Performing and Visual Arts** brings together scholarly contributions that examine how intelligent technologies are redefining cultural continuity while enabling creative transformation across artistic disciplines.

Traditional art forms—folk narratives, heritage artworks, indigenous crafts, classical music, dance, and sculpture—are increasingly vulnerable to loss due to globalization, urbanization, and generational shifts. Digital preservation techniques powered by AI now offer robust solutions for archiving, restoring, and revitalizing cultural heritage. Research in this issue highlights machine learning–based digital archiving of folk art, AI-assisted restoration of heritage artworks, and generative models for reviving lost artistic traditions. These studies demonstrate how intelligent systems can act as custodians of cultural memory while maintaining authenticity and contextual integrity.

Alongside preservation, the issue foregrounds intelligent innovation in modern artistic practice. Generative algorithms, parametric modeling, digital twins, and AI-driven design systems are transforming visual communication, sculpture, typography, photography, and media production. Contributions exploring data-based aesthetics, AI-generated infographics, generative abstraction, and computational evaluation of artistic merit reveal how artists are engaging with technology not merely as a tool, but as a collaborative creative partner. This human–AI co-creative paradigm challenges conventional notions of authorship, originality, and artistic agency.

Education emerges as another central theme of the special issue. Intelligent learning platforms, adaptive AI tutors, predictive analytics, and real-time feedback systems are redefining pedagogy in performing and visual arts education. Studies on predictive student performance, dropout analysis, employability forecasting, and AI-enhanced art therapy illustrate how data-driven insights can improve learning outcomes while supporting inclusivity and personalized artistic development. These approaches bridge traditional mentorship models with scalable, technology-enhanced education frameworks.

The issue also addresses the management and sustainability of creative ecosystems. Intelligent museum systems, AI-enabled audience engagement analysis, blockchain-supported art provenance, and data-driven print and media management solutions reflect the growing importance of analytics in cultural institutions and creative industries. Such research underscores how intelligent innovation contributes not only to artistic excellence but also to operational efficiency, transparency, and long-term sustainability.

Importantly, the special issue engages with broader philosophical, ethical, and cultural questions. As AI increasingly participates in creative and preservative processes, debates surrounding cultural ownership, artistic merit, bias, and the future of human creativity become unavoidable. By presenting interdisciplinary perspectives, this collection encourages critical reflection on how intelligent technologies can be responsibly integrated into artistic domains without diminishing human expression or cultural diversity.

Collectively, the contributions in this special issue affirm that digital preservation and intelligent innovation are not opposing forces but complementary dimensions of contemporary art practice. Together, they enable the safeguarding of artistic heritage while fostering new forms of creativity, learning, and engagement. The editors hope that this issue will serve as a meaningful platform for researchers, artists, educators, technologists, and policymakers committed to sustaining and advancing the arts in the digital age.

Sincerely,

Dr. Amit Verma is working as an associate Professor and Assistant Registrar in Journalism & Mass Communication, Centre for Distance and Online Education (CDOE), Manipal University, Jaipur. In addition, he is a freelance journalist and editor-in-chief of the International Peer-Reviewed Journal of Communication and Management. He obtained a PhD in Community Radio Stations of Rajasthan from Manipal University Jaipur. He has over 11 years of experience in the broadcasting industry, the news industry, and academia. His views and articles are regularly published in national and regional newspapers and news portals. Recently, he was elected as Vice Chair of the Participatory and Communication Research Section of the International Association for Media and Communication Research (IAMCR), an international media and communication research professional organisation for the 2024–2029 term.

Dr. Archana Kale is an Associate Professor in the Computer Science & Engineering Department, Pune, with research expertise spanning neural networks, cellular automata, fuzzy systems, and biomedical data analysis. Her Google Scholar profile lists her verified affiliation as "Assistant Professor in CSE Department Pune".

She has contributed to several peer-reviewed publications, including work on feature selection for high-dimensional biomedical datasets, incremental wrapper subset selection algorithms, and fuzzy membership enhancement for outlier detection. Her notable publications include "Prominent feature selection for sequential input by using high dimensional biomedical data set" (2020) and "F-WSS++: incremental wrapper subset selection algorithm for fuzzy extreme learning machine" (2019), each cited in reputable venues.

Dr. Kale's research footprint reflects a strong focus on intelligent computing and data-driven modeling, supported by her contributions to conferences and journals in machine learning, cybernetics, and computational intelligence. Her work continues to advance applied AI methods for real-world problem-solving.

Dr. Krati Agarwal is an accomplished academician, researcher, and reviewer with extensive experience in higher education, curriculum development, and student mentorship. She holds a Ph.D. in Applied Business Economics from Dayalbagh Educational Institute, Agra, where she completed her thesis titled "Well-being and Public Expenditure: A Study of Indian Economy." Her teaching career spans roles at GLA University, Kalinga University, Dayalbagh Educational Institute, and leading EdTech platforms, where she has delivered undergraduate and postgraduate courses, supervised dissertations, and integrated technology-enhanced learning.

She currently serves as a Reviewer for the Elsevier Journal of Cleaner Production, reflecting her growing scholarly footprint. As her CV notes, she aims to "provide a safe and nurturing learning environment that encourages student growth and development."

Dr. Agarwal has published widely on well-being, public expenditure, FDI, CSR, sustainable development, and economic reforms, with multiple papers in UGC-CARE and Scopus-indexed

journals. She is also certified in SPSS, E-Views, and NVivo, strengthening her research and analytical expertise.

Dr. Abhijit Chandratreya is an accomplished academic leader and researcher, currently serving as Associate Dean (PhD Programs) at Indira University, Pune. With over 17 years of B2B industry experience and 18 years in postgraduate education, he brings a rare blend of corporate expertise and academic depth. His CV highlights his extensive industrial background across electrical equipment, mechanical systems, pharmaceutical machinery, and turnkey engineering projects, where he "handled business of 5 crores per year" in key sectors.

In academia, Dr. Chandratreya oversees PhD admissions, RRC/SRC processes, and serves as Executive Editor of the international journal ANVESHAK. His research footprint spans AI, neuroscience, HR analytics, digital governance, sustainability, marketing, and supply chain innovation, with numerous SCOPUS-indexed publications and book chapters across IGI Global, NOVA Science, Emerald, and ABDC-listed journals.

He is also the author of multiple books, including The Habit-Driven Consumer and The Future of Analytics, reflecting his strong contributions to emerging technological and managerial domains.

Dr. Archana Rani is an active researcher and academic whose work spans contemporary developments in computer science, data analytics, and emerging technologies. Her scholarly contributions, as reflected through her ResearchGate presence, include publications in peer-reviewed journals, conference proceedings, and collaborative research projects. She engages with interdisciplinary themes such as machine learning, artificial intelligence, cybersecurity, and applied computational methods, contributing to both theoretical advancements and practical applications in the field.

Dr. Rani's research interests include algorithmic optimization, intelligent systems, and data-driven decision-making, and she frequently collaborates with scholars across institutions to address complex technological challenges. Her academic footprint demonstrates a commitment to continuous learning, innovation, and knowledge dissemination through teaching, mentoring, and active participation in research communities.

She maintains a strong digital research identity through platforms such as ResearchGate, where she shares her publications, research updates, and collaborative work.

Dr. Samir N. Ajani is an Assistant Professor in the Department of Data Science at Ramdeobaba University, Nagpur, where he contributes to teaching, research, and academic development in emerging computational domains. He holds a B.E., M.Tech., and a completed Ph.D., reflecting a strong academic foundation in engineering and data-driven disciplines. With 14 years of teaching experience, his profile highlights a substantial research footprint, including 20 international publications and 2 national papers, along with participation in 10 international and 3 national conferences.

His CV notes that he has also published books and Intellectual Property Rights (IPRs), demonstrating his commitment to scholarly dissemination. As stated on the university profile, he is associated with professional bodies such as ACM, CSI, and IAENG, strengthening his engagement with global research communities.

Dr. Ajani's academic contributions, professional memberships, and research activity position him as a dedicated educator and an active contributor to the field of Data Science.