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SPECIAL ISSUE ON INTELLIGENT EVALUATION, EMOTION ANALYTICS, AND AI-BASED ASSESSMENT IN DIGITAL ART

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Dear Readers and Contributors,

It is with great pleasure that we present this special issue of *ShodhKosh: Journal of Visual and Performing Arts*, titled **"Intelligent Evaluation, Emotion Analytics, and AI-Based Assessment in Digital Art."** This special issue responds to a critical and timely need within contemporary creative practice and education, where digital art has evolved beyond static visual expression into an intelligent, data-driven, and emotionally responsive domain.

With the integration of Artificial Intelligence, digital artworks today function as interactive systems capable of adaptation, interpretation, and emotional engagement. While such advancements have expanded the expressive and pedagogical possibilities of digital art, they have also introduced complex challenges related to **evaluation, assessment, and interpretation of creativity and emotional impact**. Traditional evaluative frameworks often fall short in addressing the multidimensional, subjective, and experiential nature of digital creativity.

Recent developments in **emotion analytics, affective computing, machine learning, and intelligent assessment systems** offer promising pathways to address these challenges. AI-based models now enable the analysis of visual features, emotional responses, interaction patterns, and contextual data, allowing for more objective, scalable, and reproducible approaches to evaluating digital art and creative performance. These technologies also hold transformative potential for **art education**, supporting automated feedback, learning analytics, and fair assessment mechanisms.

The papers selected for this special issue reflect a rich interdisciplinary dialogue bridging **technology, visual culture, psychology, pedagogy, and creative practice**. Contributions explore intelligent evaluation models for digital art, AI-driven creativity assessment frameworks, deep learning approaches to aesthetic quality measurement, emotion recognition in visual and interactive art, and multimodal emotion analysis using image, video, and interaction data. Several studies also address automated grading systems, feedback generation, and data-driven evaluation strategies within digital art education environments.

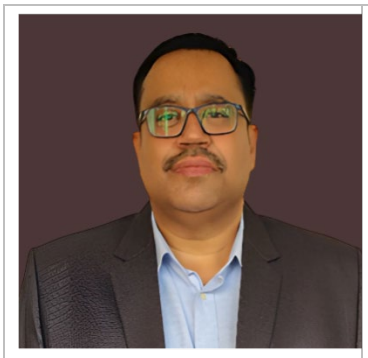
This special issue welcomes both theoretical insights and applied research, highlighting how intelligent systems can support meaningful evaluation without undermining artistic subjectivity. A recurring theme across the contributions is the importance of **ethical responsibility, interpretability, and human-centered design** in AI-based assessment systems, ensuring that technological advancement complements rather than constrains creative expression.

The call for papers attracted a diverse range of submissions from researchers, educators, technologists, and practitioners working at the intersection of art and artificial intelligence. All manuscripts underwent a rigorous peer-review process to maintain the scholarly standards of *ShodhKosh*. The resulting collection represents a curated body of work that advances current understanding while opening new avenues for research and pedagogical innovation.

We express our sincere gratitude to all authors for their valuable contributions, to the reviewers for their critical insights, and to **Granthaalayah Publications** for their continued support in promoting interdisciplinary research in the visual and performing arts. Their commitment has been instrumental in bringing this special issue to fruition.

We hope this volume will stimulate thoughtful discussion, inspire future research, and contribute meaningfully to the evolving discourse on intelligent evaluation and emotional analytics in digital art. May it serve as a resource for scholars and practitioners seeking to navigate the complex relationship between creativity, emotion, and artificial intelligence.

Sincerely,

	**Dr. Saurabh Bhattacharya** is an accomplished academic and researcher in Computer Science and Engineering with over 16+ years of experience in teaching, research, and academic administration. He holds a Ph.D. from NIT Raipur and is currently pursuing postdoctoral research at Lincoln University College, Malaysia. His academic background also includes M.Tech and MCA degrees in Computer Science. His research centers on IoT, Machine Learning, Cloud Computing, and their applications in agriculture and healthcare. He has published in reputed SCI and SCOPUS-indexed journals, including IEEE Transactions and Elsevier journals. He also holds multiple patents related to biosensors, IoT-based soil testing, and remote health monitoring systems. Dr. Bhattacharya has served in key administrative roles such as Chief Warden, NAAC Coordinator, and Exam In-Charge. He is a recipient of several awards, including the Young S&T Leader recognition by MeitY, Govt. of India. An active member of IEEE and ACM, he teaches core subjects like DBMS, Software Engineering, and programming languages, and actively mentors students in academic and research projects.
	**Dr. M. Rajendra Nath Babu** is an Associate Professor in the Department of Education at Nagaland University, Kohima Campus, Meriema, Nagaland, India. A highly accomplished academic with multiple postgraduate degrees—including M.A. in English and Sociology, M.Sc. in Psychology and Mathematics, M.Ed., M.Phil., and Ph.D.—he also holds UGC-NET with JRF and SRF in Education. With over 15 years of teaching and research experience in higher education, he has served in various academic and administrative roles, including Teacher-in-Charge, Convener of state-level entrance examinations, and Warden of university hostels. Dr. Babu's research spans digital literacy, teacher education, learning styles, mental health, educational technology, and community participation. He has published extensively in UGC-CARE, Scopus-indexed, and peer-reviewed journals, contributing significantly to educational research in Nagaland and beyond. His commitment to professional development is reflected in his participation in numerous FDPs, workshops, MOOCs, and national training programmes.

	**Dr. Anuj Kumar** is an Assistant Professor in the Department of Hindi at Nagaland University, Kohima Campus, Meriema, Nagaland, India. A scholar of contemporary Hindi literature, his academic interests span modern Hindi poetry, literary criticism, and the sociology of literature. He holds an M.Phil and Ph.D. from the University of Hyderabad, where he conducted research on Arun Kamal's poetic consciousness and the critical-cultural thought of Ramdhari Singh Dinkar. Dr. Kumar has contributed extensively to Hindi literary studies through research papers published in national and international journals, covering themes such as feminist discourse, cultural critique, nationalism in Hindi poetry, and the socio-literary perspectives of major poets. He is also the author of the book Itna to Taskin Hai, Ham Yaad Ayenge Janab! (2020). With experience in teaching, translation, academic evaluation, and literary workshops, he continues to enrich Hindi scholarship and promote critical engagement with contemporary literary trends.
	**Mr. Shreyas Upendra Dingankar** is an accomplished Assistant Professor at Bharati Vidyapeeth (Deemed to be University), IMED, Pune, bringing over 13 years of teaching experience and 2 years of industry experience to his academic role. Known for his rare blend of academic expertise, industry exposure, and strong professional associations with leading scientific and administrative figures, he offers students a uniquely practical and innovative learning environment. His close working relationships with eminent personalities such as Dr. Raghunath Mashelkar, Dr. Vijay Bhatkar, and Dr. Anand Kakodkar enrich his perspective on research, innovation, and problem-solving. Mr. Dingankar has an impressive research portfolio, including **11 Scopus-indexed papers, 2 ABDC-listed publications, and 15 UGC-CARE papers**, reflecting his commitment to high-quality scholarship. Recently appointed as a **Member of the Bharati Vidyapeeth University Academic Council**, he contributes actively to institutional development. His teaching expertise spans entrepreneurship, strategic management, business communication, and design thinking, making him a highly respected educator and mentor.
	**Dr. Pastor R. Arguelles Jr.** is a distinguished academic leader and researcher, currently serving as the Director of the Research and Publications Office at the University of Batangas Lipa City. He is widely recognized for his outstanding contributions to research, innovation, and institutional leadership. Recently, he was honored for multiple achievements, including being invited as a Keynote Speaker at the International Conference on Innovative Computing & Communication in Meerut, India, where he addressed advancements in life sciences, agriculture, and technology. He also served as Guest of Honor and Speaker at Chaudhary Charan Singh University's Department of Fine Arts in February 2025. Dr. Arguelles strengthens global academic collaboration through roles such as Chief Editor of the International Journal of Sustainable Educational Practices and Future Trends and Panel Member of the Inter-Agency Technical Evaluation Committee (IATEC) under DOST Region 4A. His leadership excellence was further recognized with the Most Outstanding Dynamic and Transformative Leader of the Year Award in December 2024.

Dr. Indrani Hazarika is a faculty member in the Department of Business with a specialization in Accounting at the Higher Colleges of Technology (HCT), United Arab Emirates. She contributes to HCT's mission of delivering industry-aligned, practice-oriented business education through her expertise in accounting, financial analysis, and applied business studies. Dr. Hazarika is actively engaged in teaching, curriculum development, and academic mentoring, supporting learners in developing strong analytical and professional competencies required in today's global business environment. Her academic interests include financial reporting, corporate governance, accounting education, and the integration of technology in business decision-making. She also participates in research and institutional initiatives that enhance academic quality and promote innovation in business pedagogy. Through her commitment to excellence in teaching and student development, Dr. Hazarika plays a significant role in strengthening the academic and professional landscape of the Higher Colleges of Technology