

Editorial

We bring the first issue of the sixteenth volume of the **Journal of Multimedia Processing and Technologies** with the below research.

In the opening paper, **“The Nitrate Era: Exploring the Rise, Reign, and Retirement of a Cinematic Powerhouse,”** the author has presented a study of nitrate film’s rise, reign, and eventual retirement as a pioneering cinematic medium. The findings documented nitrate film’s profound impact on cinema’s artistic and cultural landscape, enabling ground-breaking storytelling techniques, cinematic expressions, and influential works that shaped the language and grammar of the art form. Further, the author highlighted the ongoing preservation efforts undertaken by archives, museums, and cultural institutions to safeguard and sustain the legacy of this transformative medium, underscoring its enduring significance and influence on modern cinema practices.

In the second paper, **“Research on Intelligent Algorithm Optimization for Three-Dimensional Pattern Design in Ceramic Art under 3D Technology,”** the author studied the intelligent optimization of algorithms for three-dimensional pattern design in ceramic art with the support of computer 3D printing technology. This work proved that the intelligent algorithm optimization for three-dimensional pattern design in ceramic art under 3D printing technology has improved productivity.

In the next paper, **“Moving Object Detection and Tracking Technology Based on Hybrid Algorithm,”** the author studied the tracking targets in competitive sports scenes like basketball and football. The author proposed a simplified motion model for the ball’s non-linear motion and used a Kalman filter to obtain accurate and smooth three-dimensional tracking trajectories.

The final paper, **“Application of AI-based Visual Analysis Technology in Vocational College Electronic Technology Teaching Evaluation,”** identified that the new evaluation tool has higher accuracy than traditional evaluation tools when applying a sliding window combined with heterogeneous multi-column convolutional neural networks. This assessment tool can effectively improve teaching efficiency and provide more comprehensive evaluations.

We hope the published research in this issue is interesting to read.

Editors