

2026 IEEE 9th International Conference on PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

SPECIAL SESSION 05

Global Frontiers in AI-Driven Intelligent Image/Video Processing and related Innovation

The field of AI-Driven Intelligent Image/Video Processing represents a transformative frontier in computer vision, where advanced machine learning models are revolutionizing how data is analyzed, enhanced, and synthesized. This domain encompasses innovations in real-time object detection, scene understanding, high-resolution image/video restoration, generative content creation, and multimodal fusion with inputs. Key applications span autonomous systems, healthcare, entertainment, surveillance, and creative industries. Recent breakthroughs include diffusion models for photorealistic image generation, transformer-based architectures for long-range video context modeling, and edge AI for low-latency processing. Challenges involve ethical considerations, computational efficiency, and robustness against adversarial attacks. This area drives cross-disciplinary collaboration, pushing boundaries in AI scalability, interpretability, and real-world deployment, while shaping future standards for intelligent media.

Related Topics

Topics of interest include, but are not limited to:

1. AI-Powered Real-Time Low-Latency Image/Video Processing
2. Intelligent Fields: AI-Driven Solutions for Agricultural Efficiency
3. AI-Driven Innovations in Forestry and Ecosystem Conservation
4. AI-Powered Medical Imaging: Diagnosis, Restoration & Synthetic Data
5. Intelligent Applications for Elderly Care and Child Development
6. Intelligent Edge Vision: AI-Powered Real-Time Monitoring and Analysis
7. Smart Eyes on the Edge: AI-Driven Visual Processing for Autonomous Systems
8. The Safety Frontier of AI Image/Video Processing
9.

Publication



IEEE

Accepted papers will be published in
PRAI 2026 Conference Proceedings,
and submitted for inclusion into IEEE
Xplore and indexed by EI Compindex & Scopus.

Important Date

Final Submission Deadline	March 25, 2026
Final Notification Date	April 25, 2026
Final Registration Deadline	May 10, 2026



August 14-16, 2026

Shanghai, China



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Submission Way

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