

HMGI-CPSS 2026

Human-Centered Multimodal and Generative Intelligence for Cyber-Physical-Social Systems

Perception · Generation · Human-AI Collaboration · Real-World Intelligence

PAPER SUBMISSION

AUG. 15, 2026

AUTHOR NOTIFICATION

SEP. 01, 2026

CAMERA-READY

OCT. 01, 2026

AIM & SCOPE

HMGI-CPSS 2026 focuses on the integration of multimodal perception, generative AI, intelligent agents, and human-AI collaboration in cyber-physical-social systems.

The workshop connects advances in computer vision, multimodal foundation models, edge intelligence, and real-world applications to build intelligent and adaptive systems that operate in complex environments, including low-light, underwater, aerial, agricultural, and marine settings.

We encourage contributions that advance technical innovation, system integration, trustworthy human-centered AI, and real-world evaluation. Topics of interest include methods, algorithms, architectures, datasets, platforms, and applications that push the boundaries of multimodal understanding, generation, interaction, and decision-making within cyber-physical-social contexts.

Accepted workshop papers will be published together with the IEEE CyberSciTech 2026 workshop proceedings.

TOPICS OF INTEREST

- Multimodal image, video, text, audio, and sensor fusion
- Low-light, underwater, aerial, and adverse-environment vision
- Image enhancement, restoration, detection, segmentation, and tracking
- Vision-language models and multimodal foundation models
- Generative AI and multimodal content generation
- Retrieval-augmented and knowledge-grounded generation
- Intelligent agents and multi-agent systems
- Human-AI collaboration and human-in-the-loop intelligence
- Explainable, robust, trustworthy, and responsible AI
- Low-altitude intelligence and UAV perception
- Edge AI and cloud-edge-device collaboration
- Smart agriculture, marine intelligence, and environmental monitoring
- Digital twins and CPSS applications
- Multimodal learning analytics and educational agents

SUBMISSION

Submitted papers should be original, unpublished work relevant to the workshop scope. Each submission will be reviewed by two or three experts and evaluated for originality, technical soundness, relevance, clarity, experimental quality, and potential impact. Approximately 6-8 high-quality papers are expected to be accepted. The specific paper template and submission format must follow the requirements of CyberSciTech 2026.

WORKSHOP HIGHLIGHTS

- Technical paper sessions
- Invited talk
- Future research discussion
- 20-30 expected participants

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CONFERENCE WEBSITE

<https://cyber-science.org/2026/cyberscitech/>