

## Call for Papers

### --- Special Section on Enriched Multimedia --- - Toward Intelligent and Multimodal Media in the Era of Generative AI -

The IEICE Transactions on Information and Systems announces that it will publish a special section entitled “Special Section on Enriched Multimedia” in April 2027.

With the rapid progress of generative AI and multimodal technologies, media creation, understanding, and interaction are becoming increasingly intelligent and diversified. Large language models (LLMs) and diffusion-based generation techniques have enabled new forms of multimedia expression that combine text, audio, and visual modalities. These advances also raise new challenges in ensuring authenticity, copyright protection, and trustworthy use of generated content. Research on cyber-physical systems continues to evolve, integrating machine learning for media processing, sensing, and control with IoT and edge computing technologies. In this process, security technologies that protect newly discovered values of digital content, or that prevent malicious influences that deceive machines and humans—such as deepfakes—are increasingly important. As multimedia becomes an essential component of social and industrial infrastructure, it is necessary to promote research on intelligent and multimodal media applications that enhance both usability and security.

#### 1. Scope

This special section aims at the timely dissemination of research in these areas, including intelligent and multimodal media applications in the era of generative AI. Possible topics include, but are not limited to:

- *Protect content value* (Content Security, Non-Fungible Token, Access Control, Fingerprinting, Steganography, Trustworthy AI, Deepfake Detection)
- *Develop content value* (Content Integration, Cross-media Retrieval, Media Restoration, Machine Learning for Media Applications, Generative Models, Diffusion-based Media Synthesis, Multimodal Fusion)
- *Create content value* (Content Design, Realistic Media Creation, Universal Media, Digital Entertainment, Interactive and Human-centered Media Experiences)
- *Measure content value* (Content Evaluation, Image/Audio Quality Measurement, Evaluation of Generated Content Quality, Perception/Cognitive Metrics, Explainable Metrics, Human Audiovisual System,)

#### 2. Submission Instructions

- A manuscript should be prepared according to the guideline given in “The Information for Authors” ([https://www.ieice.org/eng/shiori/mokuji\\_iss.html](https://www.ieice.org/eng/shiori/mokuji_iss.html)). We encourage the authors to use the IEICE Style File (<https://www.ieice.org/ftp/index-e.html>). The preferred length of the manuscript is 8 pages for a PAPER and 2 pages for a LETTER with the format determined by the IEICE Style File.
- Submit the manuscript through the IEICE Web site ([https://review.ieice.org/regist/regist\\_baseinfo\\_e.aspx](https://review.ieice.org/regist/regist_baseinfo_e.aspx)). Choose “[Special-MU] Enriched Multimedia” in the menu of “Journal/Section” on the submission page. Do not choose “[Regular-ED] Information and Systems” or other special sections.
- Authors must agree to the “Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy” via electronic submission.
- Submission deadline of the manuscript is [April 1, 2026](#).

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#### 3. Special Section Editorial Committee

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**\* Upon acceptance for publication, all authors, including authors of invited papers, should pay the article processing charges covering partial cost of publication around September 2026. If payment is not completed by 15 October 2026, your manuscript will be treated as withdrawn from publication.**

- \* The standard period of 60 days between the notification (of conditional accept) and the second submission can be shortened according as the review schedule.
- \* If there are non-members among the authors, we recommend that the authors take this opportunity to join the IEICE. For detailed information on the IEICE Membership Application, please visit the web-page, [https://www.ieice.org/eng\\_r/join/individual\\_member.html](https://www.ieice.org/eng_r/join/individual_member.html). If all authors are non-members, the article processing charge for non-members will be applied, except for invited papers.
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- \* IEICE has begun a multilingual (16 languages) translation trial of IEICE Transactions Online in April 2024. Please visit <https://global.ieice.org>.