

CALL FOR PAPERS



Special Section on Digital Twin & Multimedia Processing

The open-access journal “Nonlinear Theory and Its Applications (NOLTA), IEICE” (indexed in Scopus and in the Directory of Open Access Journals) with a Journal Impact Factor of 0.6 (provided by Clarivate in 2025) welcomes you to submit papers for the Special Section on emerging technologies for complex communication sciences and multimedia functions, which will be included in the issue published in July 2027.

This special section aims to bring together recent advances in Digital Twin technologies and Multimedia Processing, with particular emphasis on nonlinear modeling, intelligent systems, and real-world applications. Digital Twin has emerged as a transformative paradigm for modeling, monitoring, and optimizing complex physical systems in real time, while multimedia processing plays a crucial role in enabling rich data representation, analysis, and interaction within such systems.

We invite original research papers that present novel theories, methodologies, and applications at the intersection of Digital Twin and Multimedia Processing, especially those leveraging nonlinear approaches.

Topics of Interest include, but are not limited to:

- Nonlinear modeling and simulation for Digital Twins
- AI-driven Digital Twin systems
- Multimedia data processing for Digital Twin environments
- Image, video, and audio analysis in cyber-physical systems
- Real-time synchronization and data fusion
- Edge/Cloud computing for Digital Twins
- Human-centered Digital Twin interfaces
- Immersive media (AR/VR/XR) for Digital Twin applications
- Signal processing techniques in nonlinear systems
- Anomaly detection and predictive maintenance
- Multimedia communication and networking for Digital Twins
- Applications in smart cities, healthcare, manufacturing, and autonomous systems

Papers submitted to this Special Section will be peer-reviewed and handled by the editorial committee of the Special Section. The deadline for the paper submission is January 10, 2027. Prospective authors are requested to carefully follow the submission process:

- (1) Check the latest information of the call for papers at
https://www.ieice.org/eng_r/information/schedule/journals.php?type=05
- (2) Prepare the manuscript according to the guidelines described on the web page:
<https://www.ieice.org/nolta/journal/author>
The LaTeX style file and template file may be downloaded from the web page. Papers do not usually exceed 30 pages of an A4-sized PDF file.
- (3) Submit the manuscript and agree to the “Copyright Transfer, and Article Processing Charge Agreement, and Notices from the IEICE and Privacy Policy” using the IEICE paper submission system at:
https://review.ieice.org/regist/regist_baseinfo_e.aspx

Authors should choose “[Special-ND] Digital Twin & Multimedia Processing” as a “Journal/Section”. Do not choose “[Regular-EN]”.

Inquiries to

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The article charges up to 30 pages:

One of the authors is a member and sister society member of IEICE: 132,000JPY

Otherwise: 154,000JPY

Submissions that do not follow the above instructions will not be accepted. For additional guidelines on manuscript preparation, please visit:

<https://www.ieice.org/nolta/journal/author>

Please note that if accepted, authors are requested to pay for the article charges covering partial costs of publications. These page charges cannot be waived.

IMPORTANT NOTICE:

Both members and nonmembers of IEICE are invited to submit manuscripts. However, we recommend that authors unaffiliated with IEICE apply for membership. For more details, please see the following web page:

https://www.ieice.org/eng_r/assets/pdf/rules/OMDP_en.pdf

IMPORTANT SCHEDULE:

Deadline for initial submission	January 10, 2027
Notification of initial decision	February 11, 2027
Deadline for revision	March 10, 2027
Notification of final decision	April 8, 2027

Editorial Committee of the Special Section

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