

Special Issue on From Reality to Digital: Advances in 3D Scanning, Reconstruction, and Recognition

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Recent advances in 3D scanning and reconstruction technologies based on LiDAR and digital images enable flexible acquisition of geometric and appearance information from physical objects and environments. These technologies are currently essential for engineering product development and the maintenance of plants, factories, infrastructure, forests, and urban environments. In addition, reliable and efficient technologies for 3D acquisition, processing, recognition, modeling, and application of digital geometry data are becoming increasingly important for cyber-physical systems. The main objective of this special issue is to present the latest research results on digitized geometry processing using 3D scanning and reconstruction, as well as its applications across various fields. Related topics include, but are not limited to, the following:

- 3D scanning, reconstruction, and sensing technology, and systems for 3D geometry data acquisition,
- Data processing algorithms, principles, and theory for the acquisition of 3D geometry data,
- Recognition and modeling from acquired 3D geometry data for objects and environments,
- Application of acquired 3D geometry data to automation and simulation technology.

The papers in this special issue present the latest advances in the application of 3D scanning and reconstruction technology. The sharing of these advances will help readers better explore and understand the technologies.

* Speedy Review (1-2months for the first review)

* The IJAT is indexed in the ESCI; Scopus; Compendex (Ei-Index); DOAJ

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Number of pages: Average 8 pages/ 8,000 words (No limit)

Manuscripts should be submitted as Microsoft Word or TeX, and adhere to the IJAT's formatting guidelines

Language: English or Japanese (和文原稿は弊社取次で翻訳した後、英文原稿で査読を行います。)

Submission deadline: November 30, 2025

Publication: June 5, 2026 (IJAT Vol.20 No.4)

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We look forward to your submission!



Publisher:

IJAT Editorial Office, Fuji Technology Press Ltd.

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