

# Special Issue on Generative AI for Design and Manufacturing

**Submission Deadline**  
**Jul. 31, 2026**

**Publication**  
**Mar. 5, 2027**  
**(IJAT Vol.21 No.2)**

**Submit your  
paper via:**  
<https://mm.fujipress.jp/ijat>



**Guest Editor:**

**Prof. Dr. Takayuki Yamada, The University of Tokyo, Japan**

Generative AI is revolutionizing engineering design and production, leading to significant advancements in product design, optimization, and manufacturing. Innovations such as large language models, diffusion models, and neural implicit representations facilitate automated concept generation, design space exploration, process planning, and decision-making throughout the product lifecycle.

Against this backdrop, the International Journal of Automation Technology invites submissions for a special issue on “Generative AI for Design and Manufacturing.” This issue aims to bring together cutting-edge research and pioneering industrial applications that harness the power of generative AI to advance design methodologies and manufacturing systems. We invite original research contributions addressing, but not limited to, the following transformative topics. Submissions may encompass theoretical advancements and practical implementations. We also welcome review papers that provide comprehensive analyses of existing research, along with critical insights into emerging trends and developments in this field.

- *Speedy Review (1-2 months for the first review)*
- *IJAT is Indexed in ESCI, Scopus, Compendex (Ei-Index), and DOAJ*
- AI-driven generative design and topology optimization
- Design automation using large language and multimodal models
- Generative models for CAD, geometry, and 3D content creation
- Generative AI for process planning, including automated generation of manufacturing sequences and strategies
- Generative AI for inspection, machine vision, and process monitoring in manufacturing
- Generative modeling for digital twins and production system simulation, enabling scenario generation and predictive synthesis
- Human–AI co-creation frameworks leveraging generative AI for interactive and adaptive engineering design
- Strategies for enhancing the reliability, controllability, explainability and interpretability of generative AI in engineering applications



## Submission details:

- Number of pages: Average 8 pages/ 8,000 words (No limit)
- Language: English or Japanese (和文原稿は弊社取次で翻訳後、英文原稿で査読)
- Manuscripts should be submitted as Microsoft Word or TeX, and adhere to the IJAT’s formatting guidelines.
- Article Processing Charge (APC) of JPY150,000 is required for publication.
- For details on submission, please refer to: <https://www.fujipress.jp/ijat/au-authors/>
- Submissions are to be evaluated by two reviewers, then submitted to the IJAT Editorial Committee for final selection.



This title is  
now indexed  
in Scopus  
refine your research  
**SCOPUS**



## Publisher:

IJAT Editorial Office, Fuji Technology Press Ltd.  
Ichigo Otemachi North Bldg. 2F, 1-15-7 Uchikanda, Chiyoda-ku, Tokyo 101-0047, Japan  
Phone: +81-3-5577-3851, FAX: +81-3-5577-3861, Email: [auto@fujipress.jp](mailto:auto@fujipress.jp)