

# Special Issue on Human Digital Twin Technology

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With the advancement of information technologies such as IoT and artificial intelligence, digital twins are being introduced into social systems. Digital twins that include explicit models of humans are expected to realize human-machine cooperative systems and health promotion services. However, human beings are still the weakest link in the system, and there are still many issues, such as the understanding and modeling of human behavior, that must be solved for digital twins to become reality. The purpose of this special issue is to summarize the latest research on digital twins including humans, from the development of fundamental technologies to system operation in simulated environments and demonstration fields, and to share the path toward the realization of the digital twin beyond the boundaries of research fields. This IJAT special issue solicits original articles related to digital twins that include human factors. This includes, but is not limited to the following:

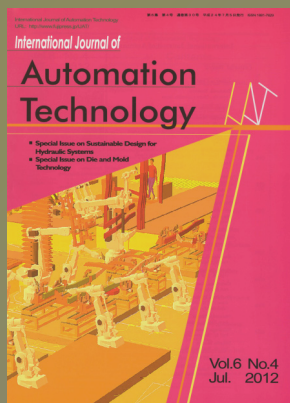
- \* Measurement using IoT devices and XR technologies
- \* Prediction using human models and behavioral databases
- \* Improvement/Augmentation of human abilities through sensory intervention and robot technologies
- \* Human-machine cooperative systems using digital twins including human factors
- \* Health promotion services using digital twins including human factors
- \* Digital twins including human factors and ELSI

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

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\* 採録後に英文校閲を行います。

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## Pages and important deadlines:

Number of pages: **8 pages (but no limit)**  
Manuscripts should be in IJAT formats of Microsoft Word, TeX.

Submission Deadline: **September 30, 2022**  
(September 9, 2022 in Japanese)

Publication: **May 5, 2023 (Vol.17 No.3)**

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\*Paper is to be evaluated by two reviewers, then submitted to the IJAT Editing Committee for final selection. Reviews take about three weeks from paper receipt until notification of first review results.

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\*It is highly recommended referring to related IJAT papers in your making manuscript.

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