

Digital Transformation of Higher and Lifelong Education

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The COVID-19 pandemic accelerated the digitalization of society and education. Faculty now uses learning management systems (LMS) to handle digital data in education. By analyzing the learning data accumulated in the LMS and utilizing digital technology, inclusive education tailored to the diversity of each student will be realized. Virtual reality (VR) and augmented reality (AR) will create new learning experiences that were previously unfeasible due to high costs and risks. Online classes have removed distance and time constraints. Online joint classes with universities abroad are also being conducted.

Japanese Society for Engineering Education (JSEE) has a multifaceted research on the direction of the digitalization and digital transformation of engineering education, including social conditions, environment, needs, legal systems, information technology, international collaboration, and industry-academia-government collaboration. The creation of new models of education in inter-university, international, and industry-academia collaborations will lead to changes in university organization and educational processes. Move to a new learning model, where learners continue to learn while in school and after graduation, continuing to study at multiple universities across borders, both online and in-person, and accumulating a lifelong learning history.