

## Special Issue

# Optical Imaging and 3D Display Technologies

### Message from the Guest Editors

New technologies for three-dimensional (3D) imaging and displays, 3D security, and 3D interaction have been pursued by scientists and engineers for decades.

Three-dimensional imaging and displays are used in a wide range of applications, including education, healthcare, manufacturing, augmented reality, interaction, security, and more. Integral imaging has the advantages of continuous viewpoint, full parallax, and no visual fatigue. Holographic display is based on the interference and diffraction of light to create 3D images. Autostereoscopic 3D displays employ the lenticular lens array to present a 3D source and and reconstruct a 3D image based on the principle of binocular parallax.

Three-dimensional data security is the process of protecting private data and preventing data loss through unauthorized access. Three-dimensional interaction technology is the use of somatosensory interaction sensors to control 3D images. Therefore, this Special Issue aims to promote the development of 3D technologies, security, and interaction and to encourage our colleagues to share and publish their research results by submitting academic papers.

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### Guest Editors

Dr. Hanle Zhang

Prof. Dr. Xiaowei Li

Dr. Yan Xing

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### Deadline for manuscript submissions

20 October 2025



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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