Special Issue

Digital Holography and 3D Display

Message from the Guest Editors

Display technology fundamentally transforms how humans perceive and interact with information across physical and virtual environments. With rapid advancements in algorithms and materials, digital display technology overcomes the intrinsic limitations of conventional optical systems in terms of physical architecture and performance and achieves unprecedented levels of visual fidelity, immersion, and interactivity. Furthermore, recent advances in deep learning have further accelerated the development of digital display technologies, enabling real-time, high-resolution, realistic 3D visualization and facilitating their applications in related fields, such as virtual reality, augmented reality, etc. This Special Issue is centered on digital holography and 3D display technology. Topics of interest include, but are not limited to, the following: holographic display; light field display; deep learning and artificial; intelligence for digital display; material and system for digital display; virtual reality and augmented reality. **Keywords:** 3D display, holography, deep learning, metasurface, virtual reality, augmented reality

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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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