# Special Issue

# From Pixels to Perception: Machine Generation of HighQuality Vision and Multi-Modal Data

## Message from the Guest Editors

- Leveraging advanced machine learning and deep learning techniques to transform basic pixel information into high-quality visual content and multimodal data is current research topic of significant interest. This process primarily involves the generation and processing of images, where machines can extract meaningful features from low-level pixel data and then utilize these features for more complex perception tasks. Furthermore, by integrating audio and text information, rich multi-modal datasets can be generated.
- The goal of this Special Issue is to present the recent advances in machine learning/deep learning-based data generation techniques and their applications in intelligent systems. Authors are welcome to submit research papers, as well as literature reviews, related to image/video generation, and their applications in virtual reality and augmented reality, autonomous driving, film production, art and creative design, medical imaging, etc.

### **Guest Editors**

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## Deadline for manuscript submissions

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

### Editor-in-Chief

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