Special Issue

From Pixels to Perception: Machine Generation of High-Quality 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 multi-modal 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.

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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