

Special Issue

AI-Driven Image Generation: Algorithms, Architectures, and Applications

Message from the Guest Editors

Over the past decade, significant progress has been made in the development of generative models driven by artificial intelligence, enabling machines to produce photorealistic and creative images that were previously thought to be the domain of human artists. Techniques such as Generative Adversarial Networks (GANs), Variational Autoencoders (VAEs), and more recently, Diffusion Models, have revolutionized the landscape of image synthesis, allowing for the generation of high-quality images from diverse input data, such as text descriptions, sketches, or even random noise. The ability to automatically create photorealistic and contextually appropriate visual content opens up new possibilities for creativity, enhances computational efficiency, and provides powerful tools for industries that rely heavily on image processing and content generation. By advancing these areas, we aim to provide an in-depth examination of the latest algorithms, architectures, and applications in this domain, offering insights into both the theoretical foundations and real-world impact of AI-powered image generation.

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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.

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