

Special Issue

Trends and Prospects in Image/Video Generation Technologies

Message from the Guest Editors

This Special Issue aims to provide a platform for researchers and practitioners to share novel algorithms, insightful methodologies, and innovative applications that address the current challenges and explore new opportunities in this rapidly evolving domain. We hope to foster discussions on improving the quality, efficiency, controllability, and ethical deployment of generative models. Research areas may include (but are not limited to) the following:

- Advanced generative models for image and video synthesis (e.g., diffusion models, GANs, VAEs, flow-based models);
- Controllable generation and editing techniques, including text-to-image/video, style transfer, and semantic manipulation;
- High-resolution and long-term coherent video generation and prediction;
- Efficient generation methods, including model compression, distillation, and fast sampling techniques;
- Multi-modal generation and cross-modal translation (e.g., audio to video, sketch to image)☒
- 3D-aware and 4D scene generation for virtual and augmented reality.

Guest Editors

Dr. Linwei Zhu
Dr. Wenhui Wu
Dr. Huan Zhang

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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