

Special Issue

Image and Video Coding Technology

Message from the Guest Editors

The coding quality of images/videos depends on various quality evaluation metrics, and novel perceptual metrics have led to higher requirements for image and video compression. At the same time, the development of large-scale foundation models has provided good data priors for image and video compression, creating possibilities for further enhancing the machine vision accuracy of image/video coding. However, for practical application deployment, designing low-latency and low-complexity image/video coding algorithms is still a key problem to be solved. In this context, we invite original research and comprehensive reviews on, but not limited to, the following:

- Advances in perceptual image/video coding;
- Advances in lossy and lossless image/video coding;
- Advances in point cloud coding;
- Advances in machine vision-oriented image/video coding;
- Advances in image/video compressive sensing;
- Reinforcement learning and game theory for image/video coding;
- Real-time video encoding;
- Scalable Video Coding (SVC);
- Enabling technologies for high-performance video coding;
- Video coding for mobile communication;
- Rate distortion theory for lossy image/video coding.

Guest Editors

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Deadline for manuscript submissions

closed (15 March 2025)



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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.

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