

Special Issue on Emerging Methods for Color Image and Video Quality Enhancement

Call for Papers

Digital color imaging devices, ranging from the low-end camera phones to the high-end digital cinema cameras, are ubiquitous in the current e-world. The image/video quality, including the color fidelity, resolution, signal-to-noise ratio, and sharpness, is among the most common concerns of the consumers. Therefore, how to improve the quality of digital images/videos is an important topic in both academia and industry. In the recent years, many new image processing techniques, such as nonlocal means, collaborative filtering, sparse coding, and dictionary learning, have been proposed. These techniques can provide new solutions to the resolution and quality enhancement of color images and videos.

The main focus of this special issue will be on the recent advances in theory and algorithm for color image and video quality enhancement. We welcome authors to submit their original research articles or comprehensive reviews in the related areas. This special issue is expected to be an effective channel for researches to report their latest results and findings in color image and video processing and propose new ideas and directions for the future development. The topics include, but are not limited to:

- Nonlocal techniques in color image/video processing
- Sparse coding and dictionary learning for color image/video processing
- Inpainting, interpolation, and superresolution
- Multiframe acquisition and merging
- Image sequence processing and video stabilization
- Color demosaicking and temporal color demosaicking
- Color cross-talk reduction
- Color enhancement by semantic analysis of scene content
- Color processing and enhancement for embedded systems
- Bioinspired color image/video processing methods
- Full-reference, reduced-reference, and no-reference color image/video quality assessment

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