

Special Session 7: Video Compression Techniques toward Next Generation Video Coding Standard

Image and video have been the vast majority of data traffic, and they are continually increasing from multiple dimensions, e.g., UHD (4Kx2K, 8Kx4K) appearing, Stereo, multi-view, 360 video. Image and video compression plays an important role in present multi-media communication applications. However, the state-of-the-art video coding standard, High Efficiency Video Coding (HEVC), cannot satisfy the requirements of the future image and video applications. To further improve the compression performance, researchers and engineers strive for developing new compression techniques for next generation image and video compression. In particular, ITU-T VCEG and ISO/IEC MPEG have also founded the Joint Video Exploration Team on explorations of future video coding techniques in 2015, and launched the next generation video coding standard, Versatile Video Coding (VVC), in April 2018.

This special session focuses on the traditional signal processing based image and video compression techniques, and aims to provide an opportunity for researchers and engineers to discuss and share the latest techniques for next generation image & video compression. The session covers specific topics related to novel approaches for image and video compression.

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