Special Issue

Video Coding Based on Compressive Sensing

Message from the Guest Editors

According to compressive sensing (CS) frameworks, if a signal is sparse in some transform domain, then it can be recovered from a much smaller number of samples than the Nyquist–Shannon theorem requires. This enables potentially wide opportunities in the development of new cheap sensors, including tiny video encoding devices. However, existing video codecs based on CS are significantly inferior in terms of rate-distortion performance to conventional codecs, such as H.264/AVC or H.265/HEVC. Moreover, CS recovery algorithms require relatively high computational complexity, which makes it difficult to perform them in real-time. This Special Issue is addressed at the new approaches which help to overcome the above- listed limitations of the existing CS video codecs.

- compressive sensing
- video coding
- sparse recovery
- entropy coding
- video streaming

If you want to learn more information or need any advice, you can contact the Special Issue Editor Lucy wang via directly.

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