

Ultralow-Bitrate Video Coding with Deep Learning

Speaker: Prof. Jianwen Chen, University of Electronic Science and Technology of China

Abstract:

With the rapid development of the Internet and smart phone, the amounts of videos are now growing explosively, leading to many new challenges on video compression. Especially, in the poor network environment (e.g., extremely-low bandwidth, network jitter, extremely-high delay, etc.), it is very challenging to transmit large-scale video streaming in real-time communication scenarios. The existing video coding standards, such as AVC/H.264, HEVC/h.265 and VVC/H.266, still have difficulty in providing great visual quality at the ultralow bitrates. In this talk, I will share some deep learning-based ultralow-bitrate video coding methods to solve this problem.