

Versatile Video Coding (VVC) on the Final Stretch

Abstract:

Compressed video data are growing at a faster rate than ever before. Already today, video data make up by far the highest percentage of bits on the Internet and in mobile traffic. This demonstrates the need for even more efficient compression, which goes beyond the current state of the art High Efficiency Video Coding standard (HEVC). In order to master this demanding challenge, the ITU Video Coding Expert Group (VCEG) and the ISO/IEC Moving Pictures Expert Group (MPEG) have already started working together in the Joint Video Experts Team (JVET). In October 2017, JVET issued a call for proposals for video coding technology beyond HEVC. Submissions from 32 organizations were showing 40% or more bitrate savings in terms of PSNR over HEVC and all submissions have been proven superior in terms of subjective quality as well. This kicked off the development of the next joint video coding standard called Versatile Video Coding (VVC). Most promising among the proposed video coding technologies have been incorporated in the current VVC draft are while others are still under investigation. VVC is expected to be finalized 2020."