Towards encoder power consumption comparison of Distributed Video Codec and H.264/AVC

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Abstract

This is a presentation of power consumption comparison of a novel approach to video compression based on distributed video coding (DVC) and widely used video compression based on H.264/AVC standard. Some investigations shows that low-complexity DVC outperforms other algorithms in terms of energy consumption if compared at the encoder side. However, estimations of power consumption stated in this presentation show that for current implementations of DVC these statements could be disputable and it may be more efficient to use compression algorithms based on differential frame coding (with zero search radius for motion estimation).

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