



QUALITY ENHANCEMENT IN STANDARD COMPLIANT FRAME RATE UP CONVERSION BY MOTION SMOOTHING (WedAmOR5)

✳ Author(s) :

Gokce Dane
Truong Nguyen

(University of California, San Diego, United States)

(University of California, San Diego, United States)

✳ Abstract :

In this paper, we address the problem of standard compliant frame rate up conversion (SC-FRUC) at the decoder by using received motion vectors analysis and processing for low bit rate applications. In the proposed SC-FRUC scheme, the skipped frames are generated at the decoder by using received motion vectors only. We introduce a smooth motion vector interpolation method to enhance visual quality in FRUC. We also discuss the visual artifacts that degrade the quality of the interpolated frames in FRUC applications. Experimental results show that the proposed motion processing algorithm improves the visual quality of frames both spatially and temporally.

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