A FAST FRAME-ACCURATE H.264/MPEG-4 AVC EDITING METHOD
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Abstract:
We propose a fast frame-accurate editing method for H.264/MPEG-4 AVC contents. H.264/MPEG-4 AVC has become widely used in various applications and services because of its high coding efficiency. With the spread of H.264/MPEG-4 AVC contents, it has been strongly required to edit the H.264/MPEG-4 AVC coded contents with less computational complexity since the compression of H.264/MPEG-4 AVC requires far more processing power than other existing formats such as MPEG-4, MPEG-2. The proposed method can handle frame-accurate cut and splice editing regardless of picture coding types. In the proposed method, we employed gAdaptive GOP-length modification scheme and gRe-quantization scheme with drift noise management. Simulation results show the effectiveness of the proposed method in terms of processing power and the picture quality of the edited contents.