RELIABLE VIDEO COMMUNICATION WITH MULTI-PATH STREAMING USING MDC (WedAmPO1)

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Abstract:
Video streaming demands high data rates and hard delay constraints, and it raises several challenges on today's packet-based and best-effort internet. In this paper, we propose a simple multiple-description coding (MDC) technique based on sub-sampling and cubic-spline interpolation to provide spatial diversity, such that no additional buffering delay or storage is required. Analysis of the frame dropping rate due to packet loss and drifting error under the multi-path streaming environment is further explored in this paper.