

عنوان مقاله:

CHANNEL ADAPTIVE RATE-DISTORTION OPTIMIZATION FOR H.264 VIDEO CODING IN WIRELESS NETWORKS

محل انتشار:

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خلاصه مقاله:

In recent years, the demand for video transmission over wireless communication networks is growing very fast. The H.264 video compression standard which offers high quality at low bit rates, is a suitable codec for applications that require efficient video transmission over wireless networks. While the compressed videos are transmitted through such error-prone networks, error robustness becomes an important issue. In this paper, a channel adaptive Lagrange optimization method for multicast and point-to-point applications in wireless networks in which the distortion of the decoder is coarsely estimated without using feedback, is proposed. We also derived different channel adaptive Lagrange multipliers for Inter and Intra modes to insert sufficient Intra MBs for stopping error propagation. The experimental results show that the new algorithm has superior objective and subjective performance for video transmission over error-prone channels compared to the standard JM12.2 codec.

کلمات کلیدی:

Wireless networks, H.264, Lagrange Rate-Distortion Optimization, Channel Adaptive Optimization

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