Abstract

The nature of wireless video requires a solution which can adapt to changing environmental conditions and support very high data rates. This puts unique requirements on the wireless connection. It must maintain highly-reliable links, provide robustness toward packet errors and interference, deliver visually lossless compression and ensure system performance and cost effectiveness through a low-latency solution. In this paper we compare 5GHz wireless HDMI with 60GHz wireless HD. We propose UWB solution of wireless HDMI in which JPEG2000 and AES 128 encryption-decryption are key techniques to solve the raised technical problems. Initial performance evaluation shows that our approach can achieve high quality video streaming performance.

References


Index Terms

Computer Science

Wireless

Keywords

HDMI  UWB (ultra wide band)  JPEG2000  AES 128 encryption-decryption