Video Surveillance System with Adaptive Compensation for Wireless Networks

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Abstract

The paper presents a video transmission technique for surveillance systems deployed over wireless networks. In order to be integrated into modern wireless and IP based networks, video surveillance systems should possess the ability to deal with variable network quality. The developed technique allows the system to adaptively compensate for unpredictable changes in the network. A statistical method is used to predict parameters related to network quality, and accordingly vary the frame rate of the video stream transmitted.