

Advanced Automatic White Balance Techniques for Mobile Video Processing

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Abstract

This paper considers the problem of performing automatic white balance correction in video capture devices. The current computational color constancy methods and their limitations are examined. A new method based on temporal accumulation of image gamut is described. The experiment with real-world video sequences shows that the proposed method provides more stable illuminant estimates, compared to other common methods.

Index Terms: automatic white balance, color constancy, video.