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RESEARCH ARTICLE

Low-complexity Histogram Modification Algorithm for Contrast Enhancement

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Abstract— Histogram equalization is widely used in different ways to perform contrast enhancement in images. In this paper, a new Histogram modification algorithm is proposed for contrast enhancement of images. Histogram Equalization (HE) is one of the most popular technique used for digital image enhancement, but it is not suitable to be implemented directly in consumer electronics, such as television, because this method tends to produce an output with saturation effect. To overcome this weakness, Low-complexity Histogram Modification Algorithm is proposed that works well with both video and still images, and it enhances the images without making any loss in image details.

Key Terms: - Contrast enhancement; Histogram equalization; Dynamic histogram specification; Histogram modification

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