**Abstract:** Improved Histogram Specification using Multiresolution in the Spatial Domain for Image Enhancement

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Abstract

The histogram specification turns a shape of a histogram into that we want to specify. This technique can be applied usefully in various image processing fields such as machine vision. However, the histogram specification technique has its basic limits. For instance, the histogram does not have location information of pixels. Also, the accuracy of specification drops because of quantization error of digitized image. In this paper, we proposed a multiresolution histogram specification method in order to improve the accuracy of specification in terms of resemblance between destination and source image. The experimental results show that the proposed method dramatically enhances the accuracy of specification compared to the conventional methods.