

## Evaluating the Performance of Color Constancy Algorithm

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**Abstract :** Color constancy is significant for human vision since color is a pictorial cue that helps in solving different vision tasks such as tracking, object recognition, or categorization. Therefore, several computational methods have tried to simulate human color constancy abilities to stabilize machine color representations. Two different kinds of methods have been used, i.e., normalization and constancy. While color normalization creates a new representation of the image by canceling illuminant effects, color constancy directly estimates the color of the illuminant in order to map the image colors to a canonical version. Color constancy is the capability to determine colors of objects independent of the color of the light source. This research work studies the most of the well-known color constancy algorithms like white point and gray world.

**Keywords :** color constancy, gray world, white patch, modified white patch

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