Abstract

This paper describes a rotational angle estimation of different color images. This estimation method is primarily based on weighted linear regression lines of the three color components of a color image as well as the influence of each component. Preservation of the chromatic information makes this method helpful to efficiently calculate the rotational angle between the referenced and sensed image pair. The experiments justify that the proposed method is robust ensuring its applicability to any kind of color images.


Index Terms

Computer Science

Image Processing
Keywords
Weighted Linear Regression Line  Composite Rotation