Abstract

The recognition of shape is a method aiming the identification of the motives from raw data in order to take a decision depending on the category assigned to this motive. The method of motive detection by cross-correlation is a very efficient method in recognition of shape. Indeed, it permits to localize an object in an image. But, the value of the cross-correlation depends more of the level of gray of the image. In this article one proposes a solution of this inconvenience based on the Fourier Transform where by exploiting its phase for to localize an object while giving its position in the image.

References

1. Richard O. Duda, Peter E. Hart, David G. Stork, Pattern classification,
Detection of the Objects by the Cross-correlation


3. J.-M Friedt Auto et intercorr_elation, recherche de ressemblance dans les signaux : application a l'identification d'images floutées, 29 avril 2011


Index Terms

Computer Science
Information Sciences

Keywords

Recognition of shape, identification of motive, cross-correlation, Fourier Transform phase, localization.