



International Journal on Recent Researches In Science, Engineering & Technology

A Journal Established in early 2000 and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy. It is an absolutely free (No processing charge No publishing charge etc) Journal Indexed in DIIF and SJIF.

Research Paper

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ISSN (Print) : 2347-6729
ISSN (Online) : 2348-3105

**Volume 1, Issue 10,
Oct. 2013**

**DIIF IF :1.46
SJIF IF: 1.329**

Improving Character Recognition Accuracy of Legendre Moments

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Abstract - It has been observed from literature that distinguishing similar images by orthogonal moments like the Legendre moments require higher order moments since other details of images are captured by high order moments only. However, computation of higher moments involves more approximation errors. Therefore Legendre moment based recognition methods fail to distinguish very similar images. Here we present a new approach to improve the recognition capability of Legendre moments by splitting the images vertically or horizontally. The improvement is achieved due to the fact that the distinguishing features for similar characters are normally conned to some small parts in them.