



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

Available online at: www.jrrset.com

**Chief Editor : 1. Dr. M.Narayana Rao, Rtd. Professor, NIT, Trichy.
(Engg.&Technology division)**

**2. Dr. N.Sandyanani, Ph.D., Professor,
Chennai based Engg.College, (Science division)**

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

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

DIIF IF :1.46

SJIF IF: 1.329

Image Dependent Directional Decomposition

P.M. Rajavel

Abstract - Literature reported, image dependent direction decomposition (IDDD), based on the directional singularities present in the image . In general, the pixel values of an image predominantly changes in an only a few directions, based on this fact the directional singularities and the magnitude spectrum of an image are related to compute the directional frequency information of an image. Time -frequency tiling is used for directional decomposition. The proposed decomposition method is used for video denoising using the maximum a posteriori (MAP) estimation in the transform domain. The proposed method shows better denoising compared to several denoising methods.