



International Journal on Recent Researches In Science, Engineering & Technology

(Division of Civil Engineering)

A Journal Established in early 2000 as National journal 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 charges, No publishing charges etc) Journal Indexed in JIR, DIIF and SJIF.

Research Paper

Available online at: www.jrrset.com

Chief Editor : Dr. M.Narayana Rao, Ph.D., Rtd. Professor, NIT, Trichy.

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 3, Issue 1,
January 2015.

JIR IF : 2.54

DIIF IF :1.46

SJIF IF: 1.329

Illumination - Invariant Pattern Recognition With Local Rank Correlations

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Abstract – Non Linear filters based on nonparametric rank correlations between local ranks of an input scenes computed in a moving window and ranks of a target for illumination invariant pattern recognition are proposed. Several properties of the correlations are investigated . Their performance of detection of noisy objects is compared to that of the conventional linear correlation in terms of noise robustness and discrimination capability. Computer simulation results for a test noisy image are provided and discussed .