

{tag} International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

[Volume 173](#)

-
[Number 9](#)

Year of Publication: 2017

Authors:

Shyam Lal, K. K. Shukla, Sarika Keshri

10.5120/ijca2017915317

{bibtex}2017915317.bib{/bibtex}

Abstract

In this paper, double wavelet series of a signal f of two variables t_1 and t_2 using Haar Scaling function $\Phi(t_1, t_2) = \varphi(t_1, t_2)$

$\varphi(t_1, t_2)$

)

and Haar Wavelet function $\Psi(t_1, t_2)$

$\psi(t_1, t_2)$

,

$\psi(t_1, t_2)$

) =

$\psi(t_1, t_2)$

¹
) $\psi(t)$

²
)

has been introduced and it has been verified by a number of examples. Several properties of this signal and its image have been studied. The significant result of this paper are the decomposition and reconstruction of signals of a single variable

t

¹
and signals of two variables

t

¹
and

t

²

using Haar Scaling signal as well as Haar Wavelets.

References

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Index Terms

Computer Science

Image Processing

Keywords

Haar Wavelet, Signal Processing, Image Processing, Double Wavelet Series, Signals of Lip Class