Abstract

In this paper, double wavelet series of a signal $f$ of two variables $t_1$ and $t_2$ using Haar Scaling function $\Phi(t_1, t_2) = \phi(t_1)\phi(t_2)$ and Haar Wavelet function $\Psi(t_1, t_2) = \psi(t_1)\psi(t_2)$.
1 $\psi(t$
2 $\}$
has been introduced and it has been verified by a number of examples. Several properties of
this signal and it’s 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


Index Terms

Computer Science Image Processing

Keywords

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