Abstract

In this paper, double wavelet series of a signal $f$ of two variables $t_1$ and $t_2$ using Haar Scaling function $\Phi(t)$ and Haar Wavelet function $\Psi(t)$ is studied.
$\psi(t)$ 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 $t$ 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