Discrete Wavelets Associated with DUNKL Operator on Real Line

Abstract

Using convolution theory of the dunkl transform, discrete dunkl wavelet transform is defined. A reconstruction formula for the discrete dunkl wavelet is obtained. Important properties of the discrete dunkl wavelet are presented. Frames and Riesz basis involving dunkl wavelets are studied.

References


Index Terms

Computer Science

Embedded Systems

Keywords

Dunkl transform, wavelet transform, Dunkl operator