Abstract Details

Title: Continuous Hankel-Clifford Wavelet Transformation on Certain Distribution Spaces

Author: V. R. Lakshmi Gorty

Abstract: In this paper continuity of the Continuous Hankel-Clifford Wavelet Transform $H_{v,\psi}$ of function ϕ in terms of a mother wavelet ψ is investigated on certain distribution spaces when the Hankel transform of ψ defined by $\hat{\psi}(x,y) \in C^{\infty}\left(\mathrm{R}_{+}^{2}\right)$. A Sobolev space boundedness result is obtained.

Keywords: Continuous Hankel-Clifford wavelet, operator, Sobolev space, distribution spaces.