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V R Lakshmi Gorty

SVKM's Narsee Monjee Institute of Management Studies, India
Mukesh Patel School of Technology Management & Engineering, India

The generalized Hankel-Clifford and extended generalized Hankel-Clifford transforms with compact support on certain range

The Paley-Wiener theorem for the generalized Hankel-Clifford and extended generalized Hankel-Clifford transforms is obtained. The generalized Hankel-Clifford and extended generalized Hankel-Clifford transforms of square integrable functions with compact supports, rapid decreasing functions, infinitely differentiable functions with compact supports of analytic functions are studied. The range of the generalized Hankel-Clifford and extended generalized Hankel-Clifford transform of compactly supported functions which are either square integrable (Paley-Wiener theorem) or infinitely differentiable (Paley-Wiener-Schwartz theorem) is characterized. Such developed transforms are supported by an application to Mathematical Physics at the end section of the study.

Biography

V R Lakshmi Gorty is presently working as a Professor of Mathematics, Basic Sciences and Humanities, SVKM's NMIMS, MPSTME, Mumbai, India. Her research interests are integral transforms and operational calculus (AMS classification: 44, 42), wavelet transforms (33C05), functional analysis generalized functions (distributions): (AMS-classification: 46 F12), mixed radix system, transforms to Kekre's function, discrete transforms, interdisciplinary research, fractional calculus and generalizations (AMS classification: 26, 26A33) and fractional transforms and generalizations. She is recipient of Bharat Jyoti Award, Certificate of Excellence awarded by India International Friendship Society, Outstanding Scientist Award in December 2015 and Best Scientist/Researcher Award, by IMRF Academic Excellence Award, 2017. She has so far published more than 85 papers in national, international journals and conferences. She has attended 42 seminars and workshops. She is Life Member of many professional bodies like IAIAM, ISTE, INS, SSFA, IMS and Congress Member of IAENG. She is a peer Member of Editorial Board and Reviewer for many international journals.

vr.lakshmigorty@nmims.edu

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