

## عنوان مقاله:

A Review of The Disteributional Derivatives in The Littlewood-paley Inequalities

## محل انتشار:

دومین کنفرانس بین المللی پژوهش در علوم و تکنولوژی (سال: 1394)

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## خلاصه مقاله:

We known that from the univariate wavelet , we can construct efficient bases for  $(\mathbb{R})$  and other function spaces by dilation and shifts. Also using Given a univariate function , we can obtain a multivariate family of functions by taking tensor products. In this paper by using Littlewood-paley inequalities we will make for our approach the some assumptions a bout the multivariate basis and its dual basis. We study the wavelet bases formed by tensor products of univariate wavelets. From that the Littlewood-paley theory applies to many other orthogonal and nonorthogonal expansions, in this paper first by using Littlewood-paley inequalities we stated the assumptions a bout multivariate basis. Then under concideration univariate wavelet we define the seminorm for the set of all functions in whose distributional derivatives are in space, also in format a theorem we acquired Necessary and suffic

## کلمات کلیدی:

Littlewood-paley inequalities, hyperbolic wavelet, univariate function, tensor product, dyadic rectangles

## لینک ثابت مقاله در پایگاه سیویلیکا:

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