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Wavelet Methods for Pointwise Regularity and Local ...

The idea is based on a wavelet characterization of pointwise Hölder regularity. Characterizations of other types of local regularity can be used to capture different local behavior [25, 26]. As ...

Wavelet techniques for pointwise regularity | Request PDF

Keywords Pointwise Ho"lder regularity, Wavelets, Spectrum of singularities, Multifractal formalism. Mathematics Subject Classification 26A16, 42C40. 1 Introduction The concept of Ho"lderian regularity has been introduced to study nowhere dif-ferentiable functions (several examples are given in [33, 44]). An archetype of

Wavelets techniques for pointwise anti-Holderian irregularity So that if 0 < a < 1 and $b \le xq > 1$, these functions vanish in a neighborhood of 63 Wavelet Methods for Pointwise Regularity Xq when, for instance, e 1/2; (4.12) is thus a consequence of f (x) 1/2 o. Too W (^ b) ha,b) (x) % (/ * <Pa) (x). But W (a,b)^{(a)} (a) (x) = -a 1/2; (4.12) is thus a consequence of f (x) 1/2 o. Too W (^ b) ha,b) (x) % (/ * <Pa) (x). But W (a,b)^{(a)} (a) (x) = -a 1/2; (4.12) is thus a consequence of f (x) 1/2; (4.12) is thus a

Wavelet Methods for Pointwise Regularity and Local ...

Wavelet methods for pointwise regularity and local oscillations of functions. [Stéphane Jaffard; Yves Meyer] -- We investigate several topics related to the local behavior of functions: pointwise Hölder regularity, local scaling invariance and very oscillatory "chirp-like" behaviors.

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Pointwise and directional regularity of nonharmonic ...

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Wavelet Methods For Pointwise Regularity And Local ... Hölder regularity is the most widely used notion of pointwise regularity, . We give a review of the definition: Let 🗓 🗓 0 and x 0 🖂 R and a locally bounded function f: R d 🖂 R. We say that f 🖂 C 🖂 (x 0) if there exists a constant C > 0 and a polynomial P with degree deg(P) < 🖂 such as: | f(x) 🖂 P(x 🖂 x 0) | 🖂 C | x 🖂 x 0 | 🖂 in the neighbourhood of the point x 0.

Wavelet Leaders: A new method to estimate the multifractal ... We study different characterizations of the pointwise Hölder spacesC s (x 0), including rate of approximation by smooth functions and iterated differences. As an application of our results we study the class of functions that are Hölder exponents and prove that the Hölder exponent of a continuous function of our results we study the class of functions that are Hölder exponents and prove that the Hölder exponent of a continuous function of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions and iterated differences. As an application of our results we study the class of functions are class.

Characterization of Pointwise Hölder Regularity ...

Multivariate processes with long-range memory properties can be encountered in many applications fields. Two fundamentals characteristics in such frameworks are the long-memory pa

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Scaling, Fractals and Wavelets Edited by Patrice Abry Paulo Gonçalves Jacques Lévy Véhel

Scaling, Fractals and Wavelets

The Fourier transform analyses the global regularity of a function. The wavelet transform makes it possible to analyze the pointwise regularity of a function. A signal is regular if it can be locally approximated by a polynomial.

Regularity Analysis

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Wavelet-Based Hölder Regularity Analysis in Condition ...

Ayache , Jaffard : Hölder exponents of arbitrary functions

The main goal of our article is to show that this is not the case: the latter Hölder exponents can also be expressed as lower limits of sequences of continuous functions. Our proof mainly relies on a "wavelet-leader" reformulation of a nice characterization of pointwise Hölder regularity due to P. Anderson.

Wavelet Methods for Multifractal Analysis of Functions 99 3.2. General points regarding multifractal functions 3.2.1. Important definitions Multifractal functions 4 every point.

Wavelet MethodsforMultifractal AnalysisofFunctions

Spectral methods such as the continuous wavelet transform (CWT; frequently named wavelet analysis) and the fast Fourier transform have a special appeal for climate and paleoclimate research because they can be used to detect periodicities in time series.

Artificial Detection of Lower-Frequency Periodicity in ...

Our method, which we term the iterated amplitude adjusted wavelet transform can be used to generate bootstrapped versions of multifractal data, and because it preserves the pointwise Hölder regularity but not the local Hölder regularity, it can be used to generate bootstrapped versions of multifractal data, and because it preserves the pointwise Hölder regularity but not the local Hölder

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