

Wavelet Methods For Pointwise Regularity And Local Oscillations Of Functions

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Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Share this page St(')ephane Jaffard; Yves Meyer. Currently, new trends in mathematics are emerging from the fruitful interaction between signal processing, image processing, and classical analysis.

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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 ...

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

~~Wavelets techniques for pointwise anti-Hölderian irregularity~~

So that if $0 < a < 1$ and $|b - x| > 1$, these functions vanish in a neighborhood of x . Wavelet Methods for Pointwise Regularity X_q when, for instance, $e = 1/2$; (4.12) is thus a consequence of $f(x) = |x - a|^{-a}$. Too $W(a,b)(x) = \int_{a-b}^{a+b} f(x) dx$. But $W(a,b)^{-1}(x) = \int_{a-b}^{a+b} f(x) dx = -a^{-a} (f * \chi_a)(x)$.

~~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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Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions . Ondersteuning. Adobe DRM. Currently, new trends in mathematics are emerging from the fruitful interaction between signal processing, image processing, and classical analysis. One example is given by "wavelets", which incorporate both the know-how of the Calderon ...

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To our knowledge, the natural definition of pointwise anisotropic regularity which allows for an anisotropic wavelet characterization was first introduced by Ben Slimane [7] in order to ...

~~Pointwise and directional regularity of nonharmonic ...~~

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Hölder regularity is the most widely used notion of pointwise regularity, . We give a review of the definition: Let $x_0 \in \mathbb{R}$ and $x \in \mathbb{R}$ and a locally bounded function $f : \mathbb{R}^d \rightarrow \mathbb{R}$. We say that $f \in C^\alpha(x_0)$ if there exists a constant $C > 0$ and a polynomial P with degree $\deg(P) < \alpha$ such as: $|f(x) - P(x - x_0)| \leq C |x - x_0|^\alpha$ 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 spaces $C^\alpha(x_0)$, 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 is the limit inferior of a sequence of continuous functions, thereby improving a ...

~~Characterization of Pointwise Hölder Regularity ...~~

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

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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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S. Jaffard, Y. Meyer, Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions, Memoirs of the A.M.S. Vol. 123 N. 587 (1996) [11] Applications of multifractal analysis in physics P. Abry, S. G. Roux, S. Jaffard, Detecting oscillating singularities in multifractal analysis: application to hydrodynamic turbulence, preprint ...

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Lahdelma, S., Kotila, V.: Real order derivatives—new signal processing method. Kunnossapito, 17, No. 8, 39–42 (2003)

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~~Wavelet-Based Hölder Regularity Analysis in Condition ...~~

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.

~~Ayache, Jaffard : Hölder exponents of arbitrary functions~~

Wavelet Methods for Multifractal Analysis of Functions 99 3.2. General points regarding multifractal functions 3.2.1. Important definitions Multifractal functions help in modeling signals whose regularity varies from one point to another. Thus, the first problem is to mathematically define a function's regularity at every point.

~~Wavelet Methods for Multifractal Analysis of Functions~~

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 test hypotheses concerning the presence of oscillating singularities in a time series, an important feature of turbulence and econophysics data.

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