

## Online Library Wavelet Methods For Pointwise Regularity And Local Oscillations Of Functions

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Mathematical Society) (9780821804759): Jaffard, Stephane, Meyer, Yves: Books

## **Wavelet Methods for Pointwise Regularity and Local ...**

Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Share this page Stéphane 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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Main Wavelet Methods for Pointwise Regularity and Local Oscillations of Functions Due to the technical work on the site downloading books (as well as file conversion and sending books to email/kindle) may be unstable from May, 27 to May, 28 Also, for users who have an active donation now, we will extend the donation period.

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## **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. Our main tool is to...

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Wavelet methods for pointwise regularity and local oscillations of functions / Material Type: Document, Internet resource: Document Type: Internet Resource, Computer File: All Authors / Contributors: Stéphane Jaffard; Yves Meyer. Find more information about: ISBN: 9781470401726 147040172X: OCLC Number: ...

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BibTeX @MISC{Jaffard05wavelettechniques, author = {Stéphane Jaffard}, title = {Wavelet techniques for pointwise regularity}, year = {2005}}

## **Wavelet techniques for pointwise regularity (2005)**

$A = A(z, j, f_c) = A + 5^{-j} \int_{0, 2^{-j} T}^T f_c(x) dx$ ,  $W \cdot Cx = c$ ,  $f_c' \cdot \int_{\mathbb{R}^n} W(2^i x - k) \cdot e^{ix} = k_j 2^k$  The pointwise Holderian regularity of a function is closely related to the decay rate of its wavelet leaders.

## **Full text of "Wavelets techniques for pointwise anti ...**

The method relies on the manipulation of wavelet coefficients using a filter that takes into account the local regularity of the coefficients in the transform domain.

## **Pointwise and directional regularity of nonharmonic ...**

The aim of this paper is to highlight the relevance in computer

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vision of the pointwise Lipschitz regularity  $\alpha \in \mathbb{R}$ . The regularity  $\alpha$  gives a measure of the local regularity of the intensity function associated to an image. Known wavelet methods provide an efficient computation of  $\alpha$  at contour points of the image. From a theoretical point of view, we study the effect of geometric ...

## **Study of a Robust Feature: The Pointwise Lipschitz Regularity**

Stéphane Jaffard and co-worker developed a new wavelet method for the characterization of the pointwise Hölder exponent HE and the relationship between Hölder regularity and local oscillation,,. They give the formulation of the criterion in terms of local suprema of wavelet coefficients, called Wavelet Leaders.

## **Wavelet Leaders: A new method to estimate the multifractal ...**

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We study different characterizations of the pointwise Hölder spaces  $C^s(x_0)$ , 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 is the limit inferior of a sequence of continuous functions, thereby improving a ...

## **Characterization of Pointwise Hölder Regularity**

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 ...**

The regularity  $\alpha$  gives a measure of the local regularity of the

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intensity function associated to an image. Known wavelet methods provide an efficient computation of  $\alpha$  at contour points of the image.

## **Study of a Robust Feature: The Pointwise Lipschitz Regularity**

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 ...

## **Stéphane Jaffard**

Known wavelet methods provide an efficient computation of  $\alpha$  at contour points of the image. From a theoretical point of view, we study the effect of geometric deformations and other specific



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transformations applied to the image, showing invariance properties. From a practical point of view, we assess the robustness of the regularity  $\alpha$  when the image un-

## **Study of a Robust Feature: The Pointwise Lipschitz Regularity**

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. The definition of the Lipschitz regularity is

## **Regularity Analysis**

More pointwise exponents for classification of the geometry of fractal boundaries were studied by Jaffard and Heurteaux . The relationship of these exponents to local dimension computation was proved by Tricot . In [4, 5], a wavelet characterization of the

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regularity was obtained.

## **Directional Multifractal Analysis in the Setting**

Reduction rate is — a Practical Guide to Pseudospectral Methods. A Spectral Element Method for the Navier, an important feature of the Legendre polynomials which transfers to the grid points of the Gaussian grid is that spectral Method to the regularity condition of the solution to the Sturm, you should install this update as soon as possible.

## **Spectral Method**

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

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turbulence and econophysics data.

## **Multifractal surrogate-data generation algorithm that ...**

The wavelet transform modulus maxima method (WTMM) is nowadays a well developed procedure to extract the singularity spectrum  $D(h)$  if the signal does not contain oscillating singularities like vortex tubes. However, the presence of oscillating singularities leads to an underestimation of Hölder exponents  $h$  and thus to wrong results.

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