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the approximation of a signal at the resolutions  $2^{\sup j+1}$  and  $2^{\sup j}$  (where  $j$  is an integer) can be extracted by decomposing this signal ...

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A Theory for Multiresolution Signal Decomposition: The Wavelet Representation STEPHANE G. MALLAT  
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introductory article provides an overview and presents the basic mechanisms involved in wavelets. In many signal processing applications, it is only necessary to know the form and content of a signal.

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A multiresolution analysis (MRA) or multiscale approximation (MSA) is the design method of most of the practically relevant discrete wavelet transforms (DWT) and the justification for the algorithm of the fast wavelet transform (FWT). It was introduced in this context in 1988/89 by Stephane Mallat and Yves Meyer and has predecessors in the microlocal analysis in the theory of differential ...

## **Multiresolution analysis - Wikipedia**

Multiresolution signal analysis provides the vehicle for these links. In this representation, we express a function  $f \in L^2$  as a limit of successive

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approximations, each of which is a smoothed version of  $f(t)$ . These successive approximations correspond to different resolutions — much like a pyramid.

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of a research effort aimed at the development of a theory of multiresolution stochastic modeling and associated techniques for optimal multiscale statistical signal and image processing. As described, a natural framework for developing such a theory

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## **Multiresolution analysis: theory and applications**

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It is now well admitted in the computer vision literature that a multi-resolution decomposition provides a useful image representation for vision algorithms. In this paper we show that the wavelet theory recently developed by the mathematician Y. Meyer enables us to understand and model the concepts of resolution and scale. In computer vision we generally do not want to analyze the images at ...

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