

# A Theory For Multiresolution Signal Decomposition The Wavelet Representation

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### A Theory For Multiresolution Signal

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MALLAT THEORY FOR MULTIREOLUTION SIGNAL DECOMPOSITION 675 which handles this correlation It is thus difficult to know whether a similarity between the image details at different

#### **A Theory for Multiresolution Signal Decomposition: The ...**

A Theory for Multiresolution Signal Decomposition: The Wavelet Representation STEPHANE G MALLAT Abstract-Multiresolution representations are very effective for ana- lyzing the information content of images We study the properties of the operator which approximates a signal at a given resolution We show that the difference of information between the approximation of a signal at the

#### **A Theory for Multiresolution Signal Decomposition: The ...**

A Theory for Multiresolution Signal Decomposition: The Wavelet Representation Abstract It is now well admitted in the computer vision literature that a multi-resolution decomposition provides a

#### **AND 7. A Theory for Multiresolution Signal Decomposition ...**

A Theory for Multiresolution Signal Decomposition: The Wavelet Representation A multiresolution representation provides a simple hi- erarchical framework for interpreting the image infor- mation [22] At different resolutions, the details of an im- age generally characterize different physical structures of the scene At a coarse resolution, these details correspond to the larger

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### **Multiresolution analysis - Università degli Studi di Verona**

Multiresolution analysis Analisi multirisoluzione G Menegaz gloriamenegaz@univri The Fourier kingdom • CTFT - Continuous time signals - The amplitude  $F(\omega)$ , also called Fourier transform, of each sinusoidal wave  $e^{-\omega j t}$  is equal to its correlation with  $f$  - If  $f(t)$  is uniformly regular, then its Fourier transform coefficients also have a fast decay when the frequency increases, so