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DECOMPOSITION : THE WAVELET REPRESENTATION

STEPHANE G. MALLAT GRASP lab, Dept of Computer and Information Science University of Pennsylvania Philadelphia, PA 19104-6389 Net address:

mallat@grasp.cis.upenn.edu.arpa ABSTRACT It is now well admitted in the computer vision literature that a multiresolution

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an interesting interpretation of multiresolution signal representations, we believe (and our recent work confirms) that they provide much more than that. Specifically, the description of multiresolution representations as dynamic systems on trees provides a setting for the multiresolution modeling

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Mallat, S.G. (1989) A Theory for Multiresolution Signal Decomposition The Wavelet Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 11, 674-693.

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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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THEORY FOR MULTIREOLUTION SIGNAL DECOMPOSITION 675 which handles this correlation. It is thus difficult to know The norm of $f(x)$ in $L'(R)$ is given by whether a similarity between the image details at different resolutions is due to a property of the image itself or to $\int f(x) dx = 11, \int f'(x) dx = 1$. the intrinsic redundancy of the representation.

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Multiresolution Signal Composition: Transforms, Subbands, and Wavelets, Second Edition is the first book to give a unified and coherent exposition of orthogonal signal decomposition techniques. Advances in the field of electrical engineering/computer science have occurred since the first edition was published in 1992.

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The characterization and construction of translation invariant multiresolution system is discussed. Multiresolution basis that provides optimal

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performance in approximating functions with different translation is considered. Translation variance is defined to be the variance of the energy when projecting input signal under different translation to the vector space constructed by ...

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Abstract: Multiresolution representations are effective for analyzing the information content of images. The properties of the operator which approximates a signal at a given resolution were studied. It is shown that the difference of information between 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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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 is the study of stochastic processes indexed by nodes on lattices or

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