

WAVELET

Meaning: Wavelet: a mathematical function used to analyze and represent data by breaking it down into localized frequency components, commonly applied in signal processing and data compression.

1. The wavelet transform is often used in image compression to reduce file sizes without significant loss of quality.
2. Researchers are exploring the application of wavelet analysis in detecting patterns in financial time series data.
3. By using wavelets, scientists can analyze signals at multiple resolutions, providing a more nuanced understanding of the data.
4. Wavelet-based methods have gained popularity in the field of biomedical engineering for processing complex physiological signals.
5. The concept of wavelets allows for effective noise reduction in audio signals while preserving important features.

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