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Title: Wavelets in Genomics and Proteomics

Abstract:

Wavelets are commonly used for signal and image processing. However, little work has addressed their use in the fields of genomics and proteomics. Wavelets offer the advantage of being able to localize a signal in the frequency and time domain. This characteristic in addition to their multiresolution (multiscaling) capabilities offer the ability to analyze high-dimensional biological data at different resolutions (scales). We will review wavelets and introduce examples of their use in the fields of genomics and proteomics.