Determining Forged Signatures Using Wavelet Decomposition

by

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Abstract: An effective procedure for distinguishing between genuine and forged signatures is analyzing them with wavelets. We used a level-one Haar wavelet decomposition and analyzed signatures using horizontal, vertical and diagonal details. We calculated row and column sums for individual signatures. We then compared each signature to an average genuine signature. Signatures with sums relatively close to the average genuine signature were considered authentic.