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Patent Search

Invention Title	PERFORMANCE AND ACCURACY ANALYSIS OF SIGNATURE VERIFICATION USING INTEGER WAVELET TRANSFORM AND BACK PROPAGATI NETWORK
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Abstract:

The biometric system is an accurate, reliable and rugged tools with traditional identification techniques for various applications. A person uses signature verification t automatic entries of forgers. The proposed handwritten signature verification system is initially pre-processed for the reduction of unwanted noise and the features l pressure, input vector and sequence of impulses are extracted using Integer Wavelet Transform (IWT)finally the obtained values are evaluated with the proposed Bac Propagation Neural Network (BPNN)classifier for the identify of genuine and forgery signature. The IWT with BPNN approach will produces the error ratio of the sign verification system at 0.0882 for SVC 2004 and 0.0921 for GPDS data set.

Complete Specification**Description: Field of invention:**

The present invention deals with Field of Invention: Signal processing/ Engineering Science and in more particular it deals with performance and accuracy analysis of signature verification using integer wavelet transform and back propagation neural network

Background of invention:

A growing amount of transactions, especially financial, official and commercial is authorized by a handwritten signature. Automatic verification is difficult to verify all documents because it takes more time to verify. Therefore, over the years, in the field of protecting commercial and financial documentation, an exponential growth has been observed in personal authentication systems such as signature, hand shapes, iris scans, fingerprints and Deoxyribonucleic Acid (DNA) are considered as biometrics. These are closely related to computable, unique physical features or behavioural product features. The signature of a person provides a secure means of validation and authorization of permissible systems. Therefore, signature authentication has become an important part of the rapid processing of automated documents. So an automatic Signature Verification (SV) must be further developed. If the validation is proved and regularly guaranteed, research on automated solutions that are effective for signature verification, will be improved in the modern times.

Objectives of the Invention:

- To propose an improved and accurate deep learning technique for the signature verification system.
- To adopt suitable feature extraction techniques and classification techniques for the signature verification system.
- To compare and analyse the performance of proposed deep learning techniques based on error rates and accuracy.

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