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Advances in Communication and Computing

IJCA Proceedings on National Conference on

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NCACC 2014 - Number 1

Year of Publication: 2014

Authors:

Jayesh Rane

Sagar More

{bibtex}NCACC2006.bib{/bibtex}

Abstract

This paper presents a method of recognition of signatures by Fuzzy Min-Max Neural Networks and analyses the effect of moment invariants on signature recognition by comparing the accuracy of recognition. In addition, database is also tested by fuzzy min-max neural networks for recognition of signatures resulting more accurate results. Image processing and fuzzy neural network toolboxes are used in person identification system provided by MATLAB. For the identification of signatures database is created for five persons with the thirty times repetitions. These signatures are preprocessed by scanning the images and then converting them to standard binary images. The features are selected and extracted which

gives the information about the structure of signature. This paper also investigates the performance of the system by using fuzzy min max neural networks classifier.

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Index Terms

Computer Science

Pattern Recognition

Keywords

Fuzzy Min Max Neural Networks Handwritten Signatures Artificial Neural Network
Multi Layer Perceptrons

Hu's Seven Moment Invariants.