Recognition of Gujarati Numerals using Hybrid Approach and Neural Networks

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Authors:
Baheti M. J.
Kale K. V.

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Abstract

The handwriting recognition is the scheme of converting text symbolized in the spatial form of graphical symbols into its figurative depiction. Handwritten characters have been the most accredited technique of collecting, storing and transmitting information all the way through the centuries. To give the proper ability to the machine it requires studying the image-form of data which forms a special pattern to be interpreted. Designing and building machines that can recognize patterns remains one of the thrust areas in the field of computer sciences. A lot of work has been done in this field, but still the problem is not answered in its full density. A good text recognizer has many commercial and practical applications, e. g. from finding data in
digitized book to computerization of any organization, like post office, which involve manual task of interpreting text. In this paper, we have presented a hybrid approach for recognition of Gujarati handwritten numerals using neural networks as classifier and achieved a good recognition rate for noisy numerals.

References

on Anti-counterfeiting, Security, and Identification in Communication, pp 611 - 615

**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**  
Gujarati Numerals  
Neural Networks  
Handwriting Recognition