Abstract

Diagnosis of mathematical symbols in handwritings is originated from Optical Character Recognition (OCR) method. Recognition of mathematical symbols increases the accuracy of calculations. In present study, hidden Markov model is applied with a new feature selection system. Considering previous studies, a lot of researches performed on mathematical symbols recognition, have used support vector machine. Test process in this method is time-consuming and it is not advised to use it. In this new approach, the result is 96.05% accuracy for Infty database and 96% for IRISA database.

References

2. C.-L.Liu and C.Y.Suen. A new benchmark on the recognition of handwritten bangla and
Diagnosis of Mathematical Symbols using Hidden Markov Model

5. Christopher M. Bishop: Pattern Recognition and Machine Learning, 2006 Springer Science+Business Media, LLC

Index Terms

Computer Science Applied Mathematics

Keywords
Mathematical symbols, optical character recognition (OCR), hidden Markov model