Abstract

Recognition of Handwritten Mathematical Expression (ME) is one of the most fascinating and challenging research area in the field of Image Processing and Pattern Recognition. The recognition of handwritten mathematical expression is difficult due to variability of the symbols in an expression and its two Dimensional structure. This paper deals with the recognition of handwritten logical mathematical expressions. The strength of the proposed approach is efficient preprocessing, feature extraction and segmentation methods.

References

- Ahmad Moritaser, Harold Mouchere, Christian Viard Gaudin. Towards
- His-Jian Lee And J. Wang. Design of a mathematical expression recognition system, 0-8186-7128-9/95,IEEE
- Stephen M. Watt Xiaofang Xie, Prototype Pruning by Feature Extraction for Handwritten Mathematical Symbol Recognition,Department of Computer Science, University of Western Ontario,Canada
- Xue-Dong Tian, Hai-Yan Li, Xin-Fu Li. Research on symbol recognition for mathematical expressions, 0-7695- 2616-0/2006 ,IEEE.
- Taik HeonRhee, JinHyungKim, Efficient search strategy in structural analysis for handwritten mathematical expression recognition, pattern recognition (ScienceDirect)0031-32,2009 Elsevier
- Francisco Álvaro, Richard Zanibbi, A Shape-Based Layout Descriptor for Classifying
Spatial Relationships in Handwritten Math, 2013 ACM 978-1-4503-1789/4/13/09

Index Terms

Computer Science  Pattern Recognition

Keywords

Pattern Recognition  Handwritten Logical Mathematical Expression  Preprocessing
Feature Extraction
Segmentation