Abstract

This paper represents an application study for using the Neural Networks and Machine Learning to recognize the English alphabet (A-Z) through the use of pattern recognition techniques in image processing and specifically to the application of Neural Networks and machine learning as a matrix two dimension. We used two techniques ANN and ML to compare their efficiencies and accuracies. We got 86.92% for ANN and 91.2% for ML.

References

- Cosmin Grigorescu, Student Member, IEEE, and Nicolai Petkov: Distance Sets for Shape Filters and Shape Recognition, IEEE TRANSACTIONS ON IMAGE PROCESSING, VOL. 12, NO. 10, OCTOBER 2003
73-80.
- Gunnar Ratsch, A Brief Introduction into Machine Learning, Friedrich Miescher Laboratory of the Max Planck Society, Germany, www.ccc.de/congress/2004/fahrplan/files
- Mickey Williams, David Bennett, et al., Visual C++6 Copyright 2000 by sams publishing, USA.
- . Pavis Chapman, teach yourself Visual C++6 in 21 days. 2000, New Delhi
- TOM M. MITCHELL, Machine Learning, McGraw-Hill, USA, 1997

Index Terms

**Computer Science**

**Networks**

**Keywords**

Neural Networks  Machine Learning  Image Processing  Pattern Recognition.