Abstract

Face recognition technology using Radial Basis Function Network (RBFN) is an attractive solution for the researchers who are working on the field of machine recognition, pattern recognition and computer vision. The key challenge in the face recognition technology is to provide high recognition rate. In this paper, an efficient method has been presented for face recognition using principal component analysis and radial basis function. More specifically, principal component analysis has been used for feature extraction and radial basis function network has been used as a classifier to classify data as well as for recognition process.

Refererences

- V. Radha, N. Nallammal "Neural Network Based Face Recognition Using RBFN
Face Recognition by Radial Basis Function Network (RBFN)

- Lindsay I Smith "A tutorial on Principal Components Analysis” February 26, 2002.
- Tiantian Xie, Hao Yu and Bogdan Wilamowski, "Comparison between Traditional Neural Networks and Radial Basis Function Networks”, Industrial Electronics (ISIE), 2011 IEEE International Symposium on, pp. 1194-1199, Date of conference 27-30 June, 2011

Index Terms

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