Abstract

Psychological distress and disabilities are increasingly identified among general population. Psychiatrist availability in rural areas is poor and often general practitioners have to identify and treat psychiatric problems like depression and anxiety. This work proposes a method to identify the psychiatric problems among patients using multi decision support system. Backpropagation (BP) and radial basis function (RBF) neural network models are used to design the decision support system. Forty four factors are considered for feature extraction. The features are collected from 400 patients and divided into four sets of equal size. Three sets of patient features are used to train the decision support system and one set of patient feature are used to evaluate performance of the system. Experimental results show that the proposed method achieves an accuracy of 98.75% for identifying the psychiatric problems.
Reference

- P. Salmon, C. Dowrick, A. Ring, "Voice but unheard agendas: qualitative analysis of the psychosocial cues that patients with unexplained medical symptoms present to general practitioners", British Journal of General Practice, 164,(2004), 171-176.

Index Terms

Computer Science Decision Support Systems
Multi decision support model for Psychiatry  Problem

Key words
Multi decision support system
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