Abstract

Intelligent diagnosis systems play a very important role in the medical field and particularly in diagnosis and classification of neuromuscular diseases (NMD). In such a field where uncertainty is always present, classical techniques of classification show a lack of efficiency thus leading to erroneous results. Fuzzy logic proved to be a suitable method for classification problems, particularly in NMDs. This paper aims to present a fuzzy logic-based system for the classification of seven types of neuromuscular diseases at first level and classification of eight types of muscular dystrophy diseases at second level. The obtained results have shown good performance of the designed classifier.

References

Classification of EMG based Diseases using Fuzzy Logic at Second Level


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Index Terms

Computer Science
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Intelligent diagnosis system, neuromuscular diseases, fuzzy logic, classification.