Vibration signals-based bearing fault diagnosis using optimized multi-scale entropy and subtractive clustering

aouabdi sali, BENDJAMA Hocine, boutassetta nadir

Abstract : A new monitoring method based on multi-scale entropy (MSE) algorithm SampEn of vibration signals in conjunction with classification approach to detect mechanical-related faults in an experimental benchmark. The used of the classifier approach of the state in both cases of healthy and faulty scenarios with variable frequency. An experimental result indicates the degree of the importance of the choice of the features extraction for the classification application of faults.

Keywords : Fault Diagnosis, Vibration analysis, bearing faults, Algorithm SampEn and Subtractive Clustering.