Abstract

The paper proposes a method using Shuffled Frog Leaping Algorithm (SFLA) to identify the optimal frequencies (center frequency and bandwidth) of the bandpass filter. Additionally, fast kurtogram is also used to find the optimal bandpass filter. Simulated results on the data sets of the CWRU Bearing Data Center verify the effectiveness of SFLA approach, and show that the proposed method outperforms fast kurtogram.

References

Online.
10. Loparo KA. Case Western Reserve University Bearing Data Center. http://csegroups.case.edu/bearingdatacenter/
13.

Index Terms

Computer ScienceSignal Processing

Keywords

Envelope detection, Fast kurtogram, SFLA, Bearing diagnosis.