

# Detection of Broken Rotor Bar Fault in Squirrel Cage Induction Motor using Wavelet Packet Analysis

**Djalel DRICI, Hichem MERABET, Salim AOUABDI, Adel BOUDIAF**

**Abstract:** The fault of broken rotor bars in a three-phase induction motor is diagnosed by using the wavelet Packet analysis. In this paper Daubechies wavelet is selected as the wavelet base and the wavelet coefficient is obtained from the wavelet transform of current signal of the faulty induction motor. The Energy of Wavelet components appear to be useful for detecting different electrical faults. In this paper we will study the problem of broken rotor bars.

**Keywords :** Wavelet Packet, Analysis, diagnosis fault, induction motor, broken bar, wavelet paket, analyses