Abstract

The use of a machine continuously can cause damage to the machine and the damage can occur at any time. If it happens it can cause disruption to the work process carried out by the machine. Severe damage can be avoided by monitoring the induction motor machine. Monitoring is carried out with the help of Internet of Things which consists of microcontrollers and sensors. . The sensor used is a current sensor and infrared sensor, which serves to read current data used and motor rotation speed. The data obtained will be sent to the Thingspeak platform, which functions as a data store. The data in Thingspeak is taken and processed so as to determine the decision of the hazard level of the induction motor engine, the data is processed with the Fuzzy Logic algorithm planted in MATLAB. The resulting hazard level will be sent via the internet to the smartphone user using the help of the IFTTT application, so that the user knows the current condition of the induction motor engine.

Key words: fuzzy logic, internet of things