Abstract

Fuzzy logic control was developed to control the compressor motor speed, fan speed, fin direction and operation mode to maintain the room temperature at or closed to the set point temperature and save energy and keep devices from damage. This paper describes the development of Fuzzy logic algorithm for Air Condition control system. This system consists of four sensors for feedback control: first for input electric volt which used to save devices from damage due to alternated voltages, second for temperature and third for humidity and fourth for dew point. Simulation of the Fuzzy logic algorithm for Air Condition controlling system is carried out based on MATLAB.

References

Developing of Fuzzy Logic Controller for Air Condition System

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Index Terms

Computer Science

Fuzzy Systems

Keywords

Fuzzy Logic Controller (FLC), Fuzzy Inference Systems(FIS), and Air Conditioning System.