Design of an Improved Fuzzy Logic based Control System for Washing Machines

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Abstract

Laundry is an essential part of people's daily life. Good washing machine can not only save energy, but also carry on a more reasonable washing to the clothes to prolong its service life. Automatic washing machine frees the user's hands, so that the user can better allocate the time to do other work, so as to improve the work efficiency. Therefore, a fuzzy logic controller (FLC) based washing machine needs to be designed. This paper presents an improved fuzzy logic based control system for washing machines. The simulation results show that the system has a shorter washing time.

References

4. George J. Kilr and Bo Yuan, Fuzzy Sets and Fuzzy Logic (India: PHI, 1995)

**Index Terms**

Computer Science  
Fuzzy Systems

**Keywords**
Defuzzification, FIS, FLC, Fuzzy Rules, Washing Time.