

عنوان مقاله:

Comparison between Fuzzy and Adaptive Fuzzy Controllers for Speed Control of BLDC Motors

محل انتشار:

بیست و ششمین کنفرانس بین المللی برق (سال: 1390)

تعداد صفحات اصل مقاله: 8

نویسندگان:

M.R Alizadeh Pahlavani - *Department of Electrical Engineering, Malek-Ashtar University of Technology (MUT) Tehran-Iran*

M Barakat - *Department of Electrical Engineering, Malek-Ashtar University of Technology (MUT) Tehran, Iran*

خلاصه مقاله:

This study presents the design of an adaptive fuzzy logic controller for the speed control of brushless dc motors. The proposed system uses an adaptation of the slope of the membership functions of the variables used in the conventional fuzzy controller based on the magnitude of the error. A simulation analysis of the fuzzy controller and the adaptive fuzzy controller are done and their performances are compared. The adaptive fuzzy controller is better than the fuzzy controller based on the steady state error and rise time.

کلمات کلیدی:

Brushless DC Motor, Fuzzy Controller, Adaptive Fuzzy Controller, Microcontroller

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/136987>

