

عنوان مقاله:

Fuzzy systems implementation by micro-controllers

محل انتشار:

اولین کنفرانس بین المللی چشم انداز های نو در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

Fuzzy logic is a generalization of the logic of the current value while the binary logic of where to terms such as low , high , low , very , etc., which form the basis of the average human thought, professor Zadeh method based on the use of linguistic expressions. For example, the distance to the car in front when driving to comply consider.[1]To set this car apart when faced with confronting If the road is slippery, you should not have too much space, and If speed is low, we can reduce the gap and If dark, the distance will increase. It is often possible to accurately measure the speed of the vehicle while driving, dark roads, slippery roads and so on in order to calculate the optimal distance values there, so to design an effective braking system of vehicles based on fuzzy logic, phrases like darkness or slow, high or low speeds and high or low, lubrication and as input variables and expressions such as the more or less the same as the human brain occurs as output variable used to decide close. Today, any electronic device, such as household appliances, cannot be manufactured without the use of logic in its technical structure. Professor Lotfi Zadeh fuzzy logic these devices are smart. Today, Europeans, Japanese and Americans and all the leading countries in science and technology, Professor Lotfi Zadeh know and are aware of the importance of his work in the modern humanknowledge.[5] In this project we intend to use fuzzy logic to intelligently control lighting a car. The design of the four sensors: ambient light detection - detection of light against the night - humidity detection and diagnosis dust (May) considered that each have a different mode: Detects ambient light (5mods),Front light recognition at night ((4mods),Humidity detection (3mods),Dust detection (May) (4mods)

کلمات کلیدی:

microcontroller, fuzzy systems, Sensor

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