

Fuzzy Neural Network Application in Automobile Light

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ABSTRACT

As a car driver, you might have been troubled by the following problems: You forget to turn on the head light because you start your car in a light place at night. You forget to switch the head light from high to low beam when meeting another car coming in the counter direction. You do not know the right time to turn on the head light or fog lamp while driving in the rain, fog or twilight. When you drive up or down a slop or make turn, the head light can not focus on tthe way efficiently. Since the situations mentioned above might be dangerous to a driver, it is necessary to improve the automobile light system. This paper will try to present a Fuzzy Neural Network control system as a better solution. The Fuzzy Neural Network control system combines Fuzzy Theory with Neural Network. It has the function of human thinking and human nervous system without human control. The system can turn on and adjust the light at the right time by means of sensing the surroundings. Therefore, it can avoid the faults caused by human control and ensure safer driving.

Keywords : Artificial Intelligence ; Fuzzy Theory ; Artificial Neural Network.

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