Application of Fuzzy Logic Algorithm for Hybrid Car Usage Time

Electricity generating systems in motorized vehicles use motor rotation with gasoline or diesel fuel to supply voltage to electronic devices and batteries as a backup power source. A good battery performance, will support the device that is supported while the amount of energy that can be stored by the battery is limited, the battery will experience a charge and discharge cycle. Therefore, there must be continuous battery charging needed so that the battery performance can reach the maximum. One solution to developing the hybrid method in charging batteries is to utilize two sources of electricity, namely charging from the vehicle engine and wind power plants that are obtained when the vehicle is running. The method used is the fuzzy logic method by assessing the input and output system from the observations. In this research will be carried out the design of hybrid power plants for the use of load with time simulation to supply the load in order to obtain accurate battery usage time modeling so as to make the battery not quickly damaged. The results of the hybrid generator design on four-wheeled motor vehicles can maintain the source of electricity in the battery and use fuel efficiently.
References


**Index Terms**

Computer Science  
Algorithms

**Keywords**

Battery, hybrid power plant, discharging