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## A Preliminary Study For Improving Reliability In Hybrid Vehicles

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### Abstract

A fault tolerance system is a kind of system which it can repair itself when a software or hardware error happens. As a matter of fact, in a fault tolerant system if an error happens the system will be able to repair itself and continue its job without any interruption. The main point in these system is reliability feature which is so important. There are many solution that can increase reliability in these system. One of these solution is redundancy method. In this paper, we tried to create a system which has a high reliability because of using redundancy method. We investigated this method in special kind of vehicles named Hybrid Vehicle. We showed that we can improve this feature remarkably using this method.

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### 1. Introduction

In today 's society, there is a concern which is spreading among people rapidly. It is related to fossil fuels. This special concern is because of global warming. Also, using these fuels e.g. gasoline leads to increase their prices. In new approach of producing vehicles, we can refer to produce hybrid vehicle which decrease fuel consumption and air pollution notably. Hybrid Vehicle consist of an internal combustion engine, an electric vehicle and an energy

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