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(57) Abstract :

The system (100) described is designed for determining the conditions of vehicle (102) components. It includes a set of sensors (104) placed on the vehicle to measure specific parameters, a computer processor (108) with machine learning algorithms (110), a database (112) storing component information, and a feedback module (116) to provide feedback to the user. The sensors can be connected to the vehicle's onboard diagnostic system or installed as separate devices. The computer processor (108) is equipped with machine learning algorithms that have been programmed to analyze the sensor data. The machine learning algorithms (110) are trained on a large dataset, and the processor analyzes the sensor data to identify patterns and correlations. The system can provide real-time alerts for critical component conditions and offers feedback that includes component conditions, maintenance/repair recommendations, and estimated costs.

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