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Abstract:

The growing popularity of electric vehicles (EVs) on a worldwide scale led to further research to monitor their performance. The use of internet of things (IoT) technology will make it easier to integrate the automated real-time monitoring system with the current EV technology. The great majority of EVs use rechargeable lithium-ion batteries. Use of lithium-ion batteries creates an overcharging situation in the battery, which significantly decreases battery life. It also increases the possibility of disastrous safety risks due to fire. This paper develops an IoT based battery management system (BMS) to minimize hazardous situations. The proposed BMS notifies the user about the condition of the battery in real time.

Keywords:

Internet of Things (IoT), Battery life, EV user interface