



Future Perspectives of Safety and Reliability Assessment for Electric-Powered Vehicles

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Message from the Guest Editors

The concept of the safety and reliability of Electric Vehicles' (EVs') components is considered a significant issue. In general, reliability assessment can be directly influenced by three main areas in the EV industry, i: EV manufacturers, ii: EV seller, and iii: EV customers. Additionally, the battery system, power electronic converter, and electric motors are known as main components of the E-power train of an EV that investigates reliability and safety in the mentioned components play a key role in the future perspectives of safety reliability assessment of EVs. The essential issues regarding the reliability assessment of EVs which need to be taken into consideration are how do the power components operate in EV, identifying failures in EV's components, inference of the failure sequences, introducing a model to illustrate the failures, and selecting a method to evaluate the reliability of EVs.

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