

Article

Design, modelling and implementation of fuzzy logic controller for electric vehicle using FPGA

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Abstract

This paper presents a novel approach with a rule based acceleration control strategy for electric vehicle using FPGA. This proposal has a straightforward goal for minimizing the complexities of the existing controllers used in vehicles. The use of fuzzy logic enables the heuristic rule based technique to be used, as an efficient solution. The FPGA implementation of FLC thereby improves the performance criterion of the components of the vehicle. The simulation results have been verified and then implemented in FPGA.

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Conference Paper

A FPGA/fuzzy logic - Based multilevel inverter

August 2009

 Carlo Cecati ·  Fabrizio Ciacetta ·  Pierluigi Siano

In this paper the authors present a H-bridge multilevel converter governed by an integrated fuzzy logic controller/modulator implemented using VHDL and FPGA. The general architecture of the system and its main performances are presented and discussed.

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