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.