# Prediction of journey parameters for the intelligent control of a hybrid electric vehicle

## typescript - Predicting journey parameters for the intelligent control of a hybrid electric vehicle

Description: -
-Prediction of journey parameters for the intelligent control of a hybrid electric vehicle
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Notes: Thesis (M.Sc.) - University of Warwick, 1997.
This edition was published in 1997



Tags: #Intelligent #HEV #Fuzzy #Logic #Control #Strategy #Based #on #Identification #and #Prediction #of #Drive #Cycle #and #Driving #Trend



Most of these control strategies are established according to the mathematical models and driving experiences, without combining with real-time drive cycles and driving trends, which makes those strategies lack adaptability, robustness and intelligence with respect to real-time driving conditions. The specific function framework of Prediction is shown in.

**Intelligent HEV Fuzzy Logic Control Strategy Based on Identification and Prediction of Drive Cycle and Driving Trend**

On the whole, the performance improvement ratios of the three combined prediction algorithms are 19%, 28%, and 29%. For example, contradiction between the high accuracy and generalization exists in the vehicle speed prediction model of the neural network structure; Markov is good at grasping the global speed change state, but the prediction accuracy is poor. Then, the state transition probability matrix of the road driving cycle is calculated according to the expression of the state transition probability, and the predicted steps are 1 s, 2 s, 3 s, 4 s, 5 s, respectively, as shown in Eq.



The three commonly used activation functions are shown in Eq. Vehicle speed prediction by two-level data driven models in vehicular networks.

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**Receding Horizon Optimal Control of Hybrid Electric Vehicles Using ELM**

Different sections will begin to show a fixed speed characteristic, which is the characteristic of the road driving cycle. In the idea of combined prediction, the paper designs three combined methods of Markov and BP Neural Network MBNN to form combined prediction models.

## Related Books

- Topological methods in group theory - the adjunction problem
- Shraddheya rajdhani.
- A womans guide to home repair
- Future of natural fibres - papers presented at a Shirley Institute Conference on 29-30 November 1977
- Britains strength - speech by the Prime Minister, the Rt. Hon. Winston Churchill, in the House of Co