Interdependence of Electrical Machine and Transmission Control and the Optimal HEV Drive Train Configuration

Abstract:
The optimization of vehicles, results often in the optimization of software components since the cost-benefit calculation is especially good in this case. The best analyzed software component is the control strategy while components like the control of the electrical machine and the shifting strategy were not scrutinized as well. Therefore the potential of a modified machine control and shifting strategy are discussed in detail. Further the results of different measurement combinations are presented. Additionally the influence of those measurements on the optimal drive train configuration, meaning e.g. the optimal size of the electrical machine and the energy storage, is presented.
Occurences:

- Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Energiewandlungstechnik (Prof. Herzog) > Bücherl, Dominik
- Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Energiewandlungstechnik (Prof. Herzog) > Herzog, Hans-Georg
- Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Energiewandlungstechnik (Prof. Herzog) > Bolvashenkov, Igor
- Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Energiewandlungstechnik (Prof. Herzog) > 2011

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