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Optimal hybrid vehicle, embedded data acquisition and tracking

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Abstract :

The paper is about the first part of a PNR (National Research Program). The study is divided into numerous parts. The first one concerns the collect of operating points of a conventional (engine) vehicle to know the energy consumption and instantaneous power needed on a driving path, in a suburban and urban everyday use of the vehicle. This paper presents the hybrid, electrical and conventional vehicle technology followed by the first part of the PNR study. It shows how the acquisition system is build, based on OBD-II CAN interface. PIDs and GPS data are recorded and displayed using 2D and 3D maps and tables. The preliminary results are presented and commented.

Keywords : Electrical vehicle , Energy , Hybrid vehicle , OBD-II , PNR.

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