

Workshop on Optimal Control of Switching/Hybrid Systems with Applications to Hybrid Electric Vehicles, Dc-Dc Converters, and Autonomous Mobile Robots

2008 Multi-Conference on Systems and Control

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Workshop Goal: Present the control community with recent theoretical results on hybrid/switched optimal control problem, the associated numerical solution methodologies, the resulting novel framework for the model predictive control of such systems, and applications to the power management problem for hybrid electric vehicles, switching control in dc-dc converters, and control of autonomous mobile robots.

Topics (Full day from 8:00-16:30)

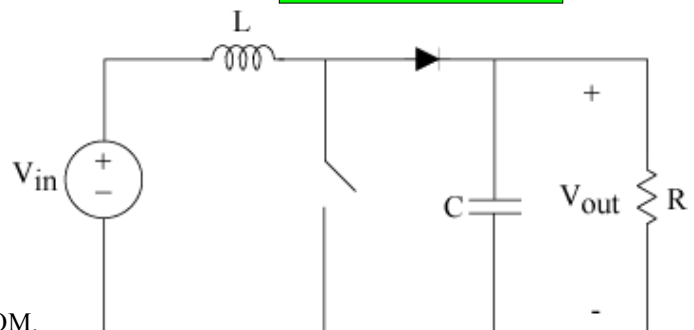
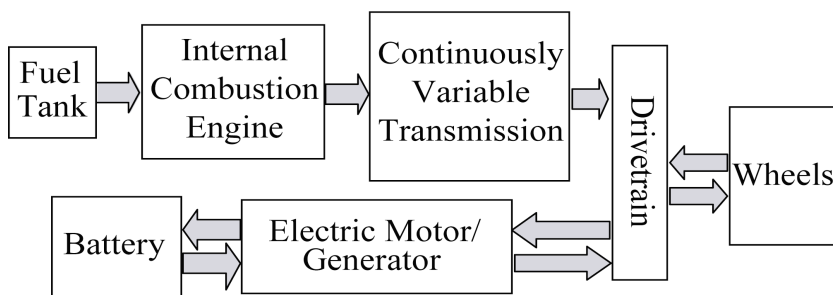
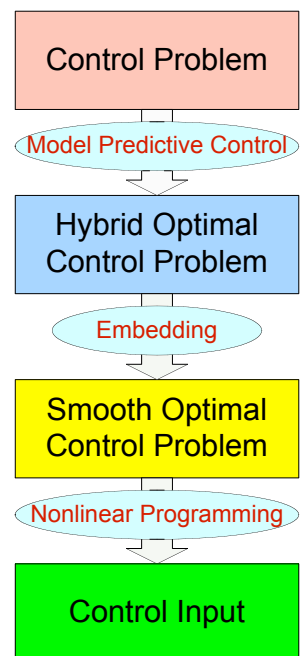
The Embedding Approach to Switched/Hybrid Optimal Control

Numerical Solution of the Switched/Hybrid Optimal Control Problem

Hybrid-Optimal-Based Switching Control of Dc-Dc Converters

Hybrid-Optimal-Based Control of Unicycles and Autonomous Mobile Robots

Solving the Power Management Control Problem in Hybrid Electric Vehicles



Workshop Proceedings: Copies of all the presentations and related publications will be made available to the workshop participants on a CD-ROM.

Registration and Conference Information <http://conferenze.dei.polimi.it/msc08/>