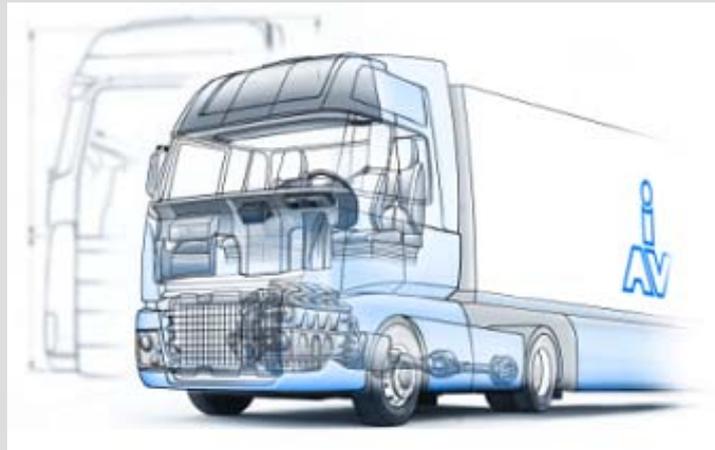




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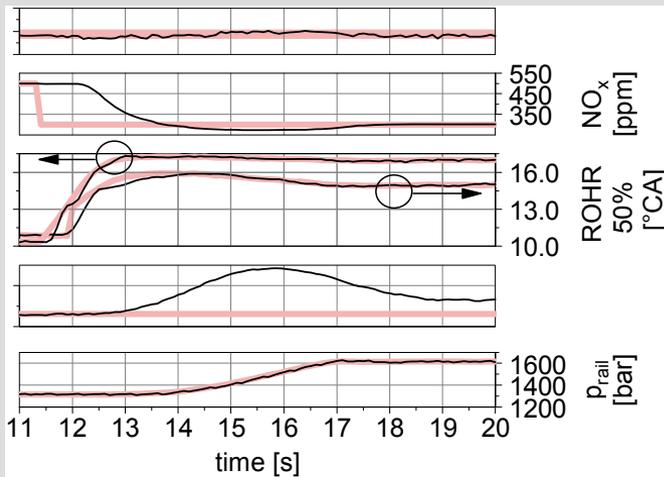
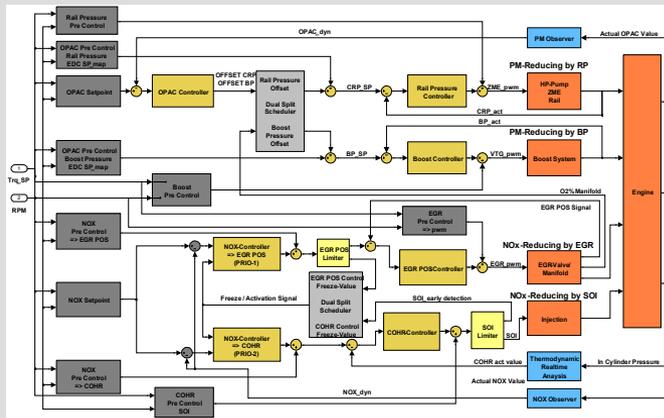
August 4, Great Lakes Center, Location P-05



New Demands on Heavy Duty Engine Management Systems

Emissions Based Process Control

E. Stölting, F. Aydin, J. Seebode, K. Behnk, M. Traver



Motivation

- investigate potential of emissions based process control to support fulfilment of future heavy-duty emissions legislation

Preliminary Investigations

- identification of suitable actuated variables

Hardware Development

- flexible modular engine controller cluster

Controller Development

- cascaded dual-split controllers for NO_x and PM

Results

- investigation of transient response and aging effects