New Demands on Heavy Duty Engine Management Systems

Emissions Based Process Control

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**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\textsubscript{x} and PM

**Results**
- investigation of transient response and aging effects