Abstract:
The engineering of automotive IT-systems is confronted with the challenge of increasing complexity which will no longer be manageable with the currently used approaches of embedded systems development. Heterogeneity and a variety of new types of applications will even increase the problem in future. In this paper we present a novel approach towards self-configuration of vehicle systems. We describe the control loop and outline how this enables autonomous management of application software in embedded distributed systems. We define the configuration problem as constraint satisfaction problem (CSP) and present simulation results of different algorithms. A mapping of algorithms to the different configuration contexts of vehicles is given.

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