# KOLLOQUIUM

Informatik-Kolloquium

# Challenges of Parallelizing Safety-Critical Real-time Applications

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Parallel hardware architectures are knocking on the door of the automotive embedded domain. However, distributing safety-critical real-time applications like an engine control system to several cores is anything but trivial. During the last years, Bosch has worked on solutions to migrate the existing embedded applications to parallel microcontroller architectures and contributed to the standardization in AUTOSAR.

In my talk I will give a short overview of Bosch, discuss in more detail the approaches developed, and finally give an outlook on the upcoming challenges beyond multi-core.

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**Informatik-Hauptgebäude (50.34), HS -101 (UG), Am Fasanengarten 5, 76131 Karlsruhe**