



The CASERM Project-Team

Our long-term goal: a Coo-based design and verification tool-chain for reconfigurable multiview embedded systems

motivational example: autonomous driving

The CASERM Persyval-Lab project-team:

Design & analysis of reconfigurable multiview embedded systems

- Follow-up of the CTRC Persyval-Lab exploratory project
- 2 PhD students funded until end of 2019

Consortium: G-SCOP, Inria/LIG, Verimag

Partners: MPI-SWS, TU Braunschweig





CASERM: Challenges and Objectives

- Modeling: an architecture description language that is suitable for reconfigurable multiview embedded systems
- Analysis*: efficient algorithms for online optimization of dynamical real-time systems with hard and soft deadlines
- 3. Certification*: a Coo library of reusable concepts and proofs for mechanically verifying the analysis of real-time systems
- Applications: an evaluation of our research results against real-life case studies

^{*} A PhD position is funded by Persyval-Lab on the topic.