

EINLADUNG

Zeit: Montag, 19. Dez. 2005, 16.00 Uhr

Ort: Seminarraum Informatik 3 (Raum 4312), Ahornstr.55

Referent: Dr. Erika Ábrahám,
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Titel: Bounded Model Checking for Linear Hybrid Systems

Abstract:

Bounded Model Checking (BMC) is a successful refutation method for detecting errors in not only circuits and other binary systems but also in systems with more complex domains like timed automata or linear hybrid automata. Counterexamples of a fixed length are described by formulas in a decidable logic, and checked for satisfiability by a suitable solver.

We analyze how BMC of linear hybrid automata can be accelerated already by appropriate encoding of counterexamples as formulas and by selective conflict learning. Furthermore we introduce parametric datatypes for the internal solver structure that, taking advantage of the symmetry of BMC problems, remarkably reduce the memory requirements of the solver.

Es laden ein: Die Dozenten der Informatik