



1st International Workshop on Applied Verification for Continuous and Hybrid Systems CPSWeek 2014, Berlin, Germany, April 14-17, 2014

While progress in the verification of continuous and hybrid systems has lead to academic tools and algorithms that can handle systems of considerable complexity, the transition to industrial applications is challenging. The workshop on applied verification for continuous and hybrid systems (ARCH) aims at bringing together researchers and practitioners, and to establish a curated set of benchmarks submitted by academia and industry.

Call for Submissions (Benchmark papers, tool presentations, experience reports)

Verification of continuous and hybrid systems is increasing in importance due to new cyber-physical systems that are safety- or operational-critical. This workshop addresses verification techniques for continuous and hybrid systems with a special focus on the transfer from theory to practice. Topics include, but are not limited to

- Reachability analysis and theorem proving
- Tools and tool demos
- Benchmark problems and experience reports
- Certification requirements for typical systems
- Open issues for industrial success

Accepted benchmarks and extended abstracts will be published on the CPS-VO website, which features versioning, comments etc., so that benchmarks can evolve over time.

Submission Guidelines

Submissions consist of an extended abstract of 3-6 pages (pdf) and optional files (e.g. models or traces) submitted through the ARCH'14 EasyChair web site (<http://www.easychair.org/conferences/?conf=arch14>). The extended abstract should be classified in its title as *benchmark paper*, *tool presentation* or *experience report*. Submissions receive at least 3 anonymous reviews, including one from industry and one from academia.

For benchmark papers, authors should follow the template *benchmark_subm_example.zip* at <http://cps-vo.org/group/ARCH> under the tab *Files*. Benchmarks can be academic or industrial, of small size or extensive case studies. Details on the evaluation criteria can be found at <http://cps-vo.org/group/ARCH/CallForSubmissions>.

Submission deadline: January 26
Notification: March 9
Final Version: March 31
Workshop: April 14

Organizers

Matthias Althoff, Technische Universität München, Germany, <http://www6.in.tum.de/Main/Althoff>
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