



11th Int. Workshop on Applied Verification for Continuous and Hybrid Systems

Part of 8th IFAC Conference on Analysis and Design of Hybrid Systems, Boulder, Colorado USA, July 03, 2024

The workshop on applied verification for continuous and hybrid systems (ARCH) brings together researchers and practitioners to establish a curated set of benchmarks and test them in a friendly competition.

Call for Submissions

Verification of continuous and hybrid systems is increasing in importance due to new cyber-physical systems that are safety- or operation-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

- Proposals for new benchmark problems (not necessarily yet solvable)
- Tool presentations
- Tool executions and evaluations based on ARCH benchmarks
- Experience reports including open issues for industrial success
- Reports on results of our friendly competition (separate call)

Submission Guidelines

Submissions consist of papers of ideally 3-8 pages (pdf) and optional files (e.g. models or traces) submitted through the ARCH'24 EasyChair web site (<https://easychair.org/conferences/?conf=archcomp24>). Detailed submission guidelines can be found on <https://cps-vo.org/group/ARCH/Submission-Instructions>. Submissions receive at least 3 anonymous reviews, including one from industry and one from academia. Details on the evaluation criteria can be found at <https://cps-vo.org/group/ARCH/Call-for-Submissions>.

Submission deadline: May 10, 2024
Notification: May 31, 2024
Final Version: June 21, 2024
Workshop: July 03, 2024
Website: <http://cps-vo.org/group/ARCH>

Prize

The tool with the most promising results in the ARCH competition receives a prize of 500 Euros. The winner is determined by an audience voting.

Organizers

Program chairs: **Matthias Althoff**, Technical University of Munich, Germany
Goran Frehse, ENSTA Paris, France

Evaluation chair: **Taylor T. Johnson**, Vanderbilt University, USA

Program Committee

Academia	Industry
Stanley Bak (Stony Brook Univ.)	James Kapinski (Amazon)
Xin Chen (Univ. Dayton, Ohio)	Aditya Zutshi (Galois Inc.)
Christian Schilling (Aalborg University)	Jens Oehlerking (Bosch)
Joseph K. Scott (Georgia Institute of Technology)	Alessandro Pinto (United Technologies)