



# 8th Int. Workshop on Applied Verification for Continuous and Hybrid Systems

## Part of IFAC Conference on Analysis and Design of Hybrid Systems, Brussels, Belgium, early July, 2021

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'21 EasyChair web site (<http://www.easychair.org/conferences/?conf=arch21>). Detailed submission guidelines can be found on <https://cps-vo.org/group/ARCH/submissionInstructions>. Submissions receive at least 3 anonymous reviews, including one from industry and one from academia. Details on the evaluation criteria can be found at <http://cps-vo.org/group/ARCH/CallForSubmissions>.

Submission deadline: April 30, 2021  
Notification: May 31, 2021  
Final Version: June 18, 2021  
Workshop: early July, 2021  
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  
Publicity chair: **Sergiy Bogomolov**, Newcastle University, UK  
Evaluation chair: **Taylor T. Johnson**, Vanderbilt University, USA

### Program Committee (tentative)

Academia	Industry
Stanley Bak (Air Force Research Lab)	Ajinkya Bhave (LMS Siemens)
Pieter Collins (Maastricht Univ.)	Olivier Bouissou (MathWorks)
Xin Chen (University of Dayton)	Alexandre Donze (Decyphir Inc)
Sicun Gao (University of California)	Aaron Fifarek (Linqest)
Ian Mitchell (Univ. British Colombia)	James Kapinski (Toyota)
Andre Platzer (CarnegieMellon University)	Jens Oehlerking (Bosch)
Nacim Ramdani (Universite d'Orleans)	Luca Parolini (BMW)
Aditya Zutshi (UC Boulder)	Alessandro Pinto (United Technologies)
	Frank Schiller (Beckhoff Automation)
	Huafeng Yu (Toyota)