7th Int. Workshop on
Applied Verification for Continuous and Hybrid Systems
Part of IFAC World Congress, Berlin, Germany, July 12, 2020

The workshop on **a**pplied ve**r**ification for **c**ontinuous and **h**ybrid 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'20 EasyChair web site (`http://www.easychair.org/conferences/?conf=arch20`). 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:	May 18, 2020
Notification:	June 08, 2020
Final Version:	June 29, 2020
Workshop:	July 12, 2020
Website:	`http://cps-vo.org/group/ARCH`

Prize

The paper with the most promising benchmark results receives a prize of 500 Euros. The winner is preselected by the program committee and determined by an audience voting.

Organizers

Program chairs:	**Matthias Althoff**, Technische Universität München, Germany
	Goran Frehse, UJF-Verimag, 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 (Linquest)
Ian Mitchell (Univ. British Colombia)	James Kapinski (Toyota)
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Aditya Zutshi (UC Boulder)	Alessandro Pinto (United Technologies)
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	Huafeng Yu (Toyota)