

Third International Workshop on Methods and Tools for Distributed Hybrid Systems

Amsterdam, Netherlands, 26 August 2019

Associated with CONCUR / FORMATS / FMICS



The purpose of DHS is to connect researchers working in *real-time* systems, *hybrid* systems, *control* theory, *distributed* computing, and *concurrency*, in order to advance the subject of **distributed hybrid systems**.

Distributed hybrid systems, or distributed *cyber-physical* systems, are abundant. Many of them are safety-critical, but ensuring their correct functioning is very difficult. We believe that new techniques are needed for the analysis and validation of DHS. More precisely, we believe that convergence and interaction of methods and tools from different areas of *computer science*, *engineering*, and *mathematics* is needed in order to advance the subject.

The first DHS workshop was held in Aalborg, Denmark, in August 2017 and associated with MFCS. It featured invited talks by Alessandro Abate, Martin Fränzle, Kim G. Larsen, Martin Raussen, and Rafael Wisniewski. The second edition was held in Palaiseau, France, in July 2018, with invited talks by Luc Jaulin, Thao Dang, Lisbeth Fajstrup, Emmanuel Ledinot, and André Platzer. This third edition aims to continue the conversation.

Call for Short Contributions

We are calling for presentations of original, unfinished, already published, or otherwise interesting work which can highlight how the research topics of DHS may interact in order to advance the subject of distributed hybrid systems. Note that DHS 2019 will have no formal proceedings.

Deadline

Submission of contributions: 28 June 2019

Invited Talks



Majid Zamani

University of Colorado Boulder
United States

Compositional synthesis of interconnected control systems

Hervé de Forges

Kopadia, Paris
France



Underwater robotics: past, present, and future



Xavier Urbain

Université Lyon 1
France

Swarms of mobile robots, towards safety with versatility

Organization

Alessandro Abate, Oxford University
Uli Fahrenberg, École polytechnique
Martin Fränzle, University of Oldenburg

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<http://dhs.gforge.inria.fr/>